SERVICE MANUAL

AEP Model

Chassis No. SCC-A99A-A

Australian Model

Chassis No. SCC-B22A-A

West Germany Model

Chassis No. SCC-B19A-A



SPECIFICATIONS

Note: The service manuals for RM-668 have been issued separately.

Color system

PAL, SECAM, NTSC and NTSC_{4,43} systems,

switched automatically

Picture tube

Trinitron tube

Approx. 54.5 cm (21 inches)

(50.6 cm picture measured diagonally)

100-degree deflection, AG pitch 0.55 mm

Resolution

Video input: 420 TV lines RGB inputs: 640 × 200 dots

(2000 characters)

Color temperature 9300°K

Frequency response

10 MHz (-3 dB, RGB)

5 MHz (-3 dB, composite video)

Horizontal linearity

Less than ±7%

Vertical linearity

Less than ±8%

Line pull range

Horizontal: +500 Hz

Vertical: -8 Hz

Overscan of the picture

Less than +7%

Convergence

Central area: within 1.0 mm

Periphery: within 1.8 mm

LINE A/B, VTR inputs

VIDEO IN:

LINE A/B: BNC connector

Composite video, 1 Vp-p ±6 dB, sync

negative, 75-ohm termination

switchable

VTR: 8-pin connector

Composite video, 1 Vp-p ±6 dB, sync

negative, 75-ohm terminated

AUDIO IN:

LINE A/B: Phono jack

-5 dBs, more than 47 kilohms

VTR: 8-pin connector, -5 dBs, more

than 47 kilohms

LINE A/B outputs (loop-through outputs)

VIDEO: BNC connector

AUDIO: Phono jack

VIDEO: BNC connector Monitor outputs

Composite video, 1 Vp-p

AUDIO: Phono jack

Less than 1 kilohm

Digital RGB inputs RGB: D-sub 9-pin connector

(See "Signal assignment".)

AUDIO: Phono jack

-5 dBs, more than 47 kilohms

21-pin connector

AV connector

(See "Signal assignment".)

Speaker terminals 8 ohms

Control S input/output

Minijack, 5 Vp-p

Power output

7W + 7W at 8 ohms

Power requirements

220 - 240 V AC, 50/60 Hz

Power consumption

140 W

Dimensions

Approx. 516 × 409 × 482 mm (w/h/d)

incl. projecting parts and controls

Weight Approx. 30.6 kg

Supplied accessory

Remote commander RM-668, with 2 R6 batteries...... 1

Optional accessories

TV stand SU-538, SU540

Speaker system SS-X6A, APM-X5A

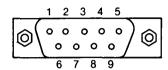
- Continued on page 2 -

TRINITRON COLOR VIDEO MONITOR SONY MICROFILM



SIGNAL ASSIGNMENT

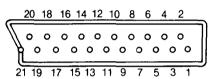
DIGITAL RGB connector (D-sub 9-pin)



Digital signal (TTL level)

Pin No.	Signal assignment	
1	Ground	
2	Ground	
3	Red input	
4	Green input	
5	Blue input	
6	Intensity input	
7	No connection	
8	H. sync input (positive/negative)	
9	V. sync input (positive/negative)	

AV connector (21-pin)



Pin No.	Signal	Signal level
1	Audio output B (right)	Standard level: 0.5 Vrms Output impedance: Less than 1 k ohm*
2	Audio input B (right)	Standard level: 0.5 Vrms Input impedance: More than 10 k ohms*
3	Audio output A (left)	Standard level: 0.5 Vrms Output impedance: Less than 1 k ohm*
4	Ground (audio)	
5	Ground (blue)	
6	Audio input A (left)	Standard level: 0.5 Vrms Input impedance: More than 10 k ohms *
7	Blue input	0.7 V ±3 dB, 75 ohms, positive
8	Function select (AV control)	High state (9.5 – 12 V): Peri mode Low state (0 – 2 V): TV mode Input impedance: More than 10 k ohms Input capacitance: Less than 2 nF

Pin No.	Signal	Signal level
9	Ground (green)	
10	Open	
11	Green input	(Same as Pin 7)
12	Open	
13	Ground (red)	
14	Ground (blanking)	
15	Red input	(Same as Pin 7)
16	Blanking input	High state (1 – 3 V) Low state (0 – 0.4 V) Input impedance: 75 ohms
17	Ground (video output)	
18	Ground (video input)	
19	Video output	1 V ±3 dB, 75 ohms, positive Sync: 0.3 V (±3 dB)
20	Video input	1 V \pm 3 dB, 75 ohms, positive Sync: 0.3 V (\pm 3 dB)
21	Common ground (plug, shield)	

^{*} at 20 Hz - 20 kHz

Design and specifications subject to change without notice.

TROUBLESHOOTING

If these symptoms occur when you begin operation, follow the suggestions below.

SYMPTOMS	CORRECTIONS
No controllable keys although the POWER switch is turned on.	Press the CONTROL key.
No indication appears although the CONTROL key is pressed.	• Set the MANUAL CONTROL switch on the rear panel to ON.
Remote control is not possible.	• Set the REMOTE CONTROL switch on the rear panel to ON.

If the problem still cannot be solved, contract your authorized Sony dealer.

TABLE OF CONTENTS

Section	<u>Title</u>	<u>Page</u>
1. 0	GENERAL	
1-1. 1-2. 1-3.	Location and Function of Parts and Control	8
2. [DISASSEMBLY	
2-1. 2-2. 2-3.	Power Block Assy and Chassis Assy Removal	13
3. 8	SETUP ADJUSTMENTS	
3-1. 3-2. 3-3.	Beam Landing	16
4. (CIRCUIT ADJUSTMENTS	
4-1. 4-2. 4-3. 4-4. 4-5.	FA Boards Adjustment	19
5. [DIAGRAM	
5-1. 5-2. 5-3. 5-4.	Circuit Boards Location	24
6. E	EXPLODED VIEWS	
6-1. 6-2. 6-3. 6-4.	Picture Tube. Chassis Back Cover. Key Board Unit	66 67
7. E	ELECTRICAL PARTS LIST	69

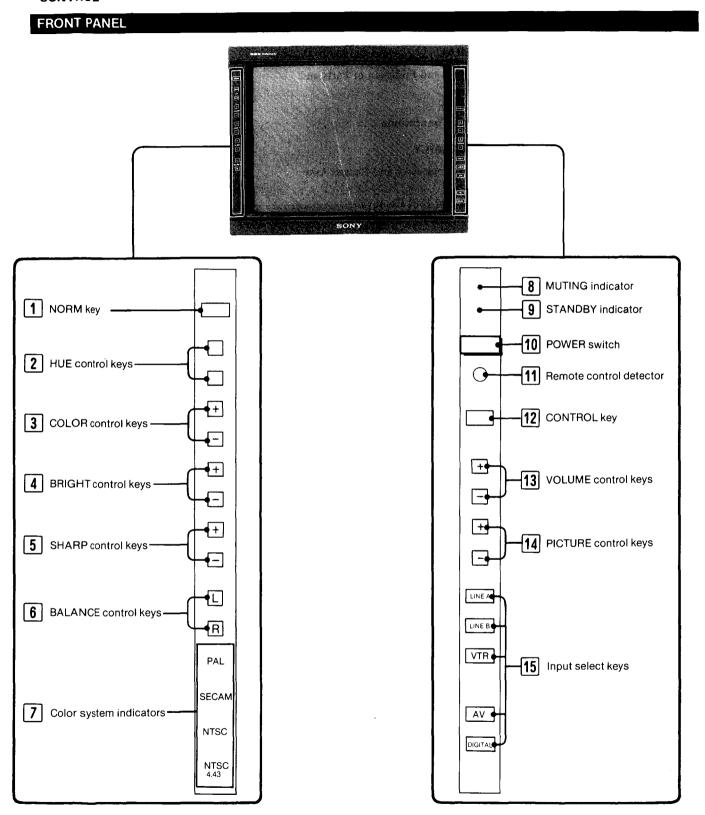
SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK

ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SECTION 1 GENERAL

1-1. LOCATION AND FUNCTION OF PARTS AND CONTROL



• Press CONTROL key after power is turned on to illuminate the control keys or indicators.

The following control keys are effective only when MANUAL CONTROL switch on the rear panel is set to ON.

1 NORM (normal) key

Press this key to return to the standard setting.

• This key is effective only for the control keys on the left.

2 HUE control keys

Press the GRN (green) key to make the skin tones greenish or the PUR (purple) key to make it purplish.

 These control keys are effective for the NTSC and NTSC_{4,43} color systems only.

3 COLOR control keys

Press the + key to make the color intensity vivid or the - key to make it pale.

4 BRIGHT (brightness) control keys

Press the + key to make the picture brighter or the - key to make it darker.

5 SHARP (sharpness) control keys

Press the + key to obtain a sharp picture or the - key to obtain a soft picture.

6 BALANCE control keys

Press the L key to increase the sound volume of the left speaker or the R key to increase the sound volume of the right speaker.

Color system indicators PAL, SECAM, NTSC, NTSC_{4 43}

The color system of the input signal is automatically selected and the corresponding indicator illuminates. When the input signal is monochrome, no color system indicator illuminates.

8 MUTING indicator

Illuminates while the sound is muted.

• Muting is controlled only by the Remote Commander.

9 STANDBY indicator

Illuminates when the power is turned off by the Remote Commander.

10 POWER switch

Press this switch to turn the monitor on.

Press this switch again to turn it off.

- When the monitor is turned on, the settings of the monitor are the same as when it was last turned off.
- For a few seconds after turning on the monitor the color of picture may vary because the white balance is adjusted at this time. This is not a problem.

11 Remote control detector

The beam from the Remote Commander is received here.

12 CONTROL key

Press this key to illuminate the keys and indicators on the front panel.

Press this key again to extinguish them.

13 VOLUME control keys

Press the + key to raise the volume or the - key to lower it

14 PICTURE control keys

Press the + key to make the contrast, color intensity and brightness stronger or the - key to make them weaker.

15 Input select keys

LINE A, LINE B, VTR, AV, DIGITAL

Select the input source connected to the LINE A, LINE B, VTR, AV or DIGITAL RGB connector.

When a key is pressed:

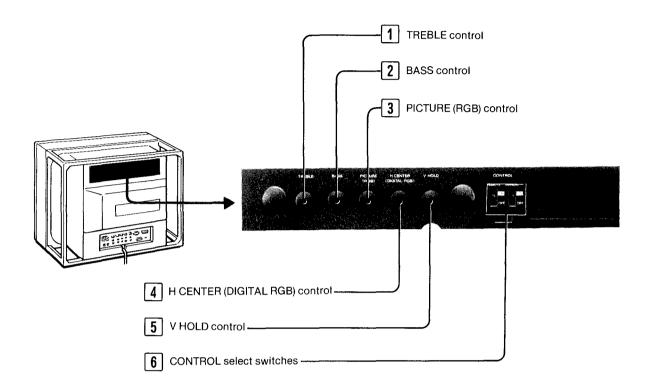
- it blinks if the other indicators and keys on the front panel illuminate.
- it illuminates if they are extinguished.

Key illumination

For the keys 1 through 7, 13 and 14:

- While each key is pressed, it blinks, indicating that adjustment is going on.
- During adjustment, if the adjustment value reaches the limit, the blinking speed becomes slower.

REAR PANEL



1 TREBLE control

Turn clockwise for more treble (high tone), or counterclockwise for less.

2 BASS control

Turn clockwise for more bass (low tone), or counterclockwise for less.

3 PICTURE (RGB) control

Adjust the contrast of the RGB signals connected to the AV connector or the DIGITAL RGB connector.

4 H CENTER (DIGITAL RGB) (horizontal centering) control

When the picture of DIGITAL RGB input is decentered horizontally, correct it with this control.

5 V HOLD (vertical hold) control

When the picture rolls vertically, correct it with this control.

6 CONTROL select switches

Normally set to ON.

REMOTE CONTROL switch

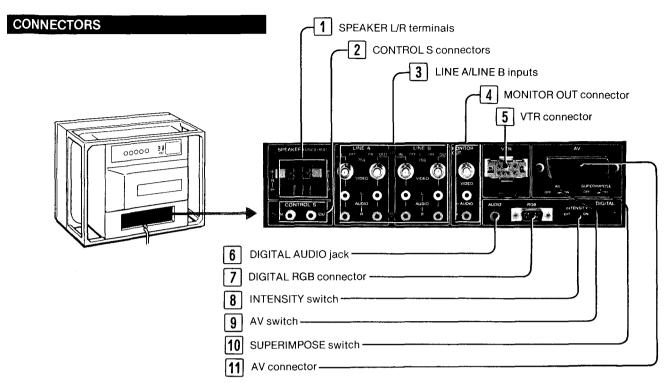
Set this switch to ON to control the monitor with a Remote Commander.

If this switch is set to OFF, the remote control is not possible.

MANUAL CONTROL switch

Set this switch to ON to control the monitor manually. To make the manual control of the control keys or switches on the front panel impossible, extinguish the indicators by pressing the CONTROL key on the front panel and set this switch to OFF.

(However remote control is possible if the REMOTE CONTROL switch is set to ON.)



1 SPEAKER L/R terminals

Connect to speakers with 8 to 16 ohm impedance.

2 CONTROL S IN/OUT connectors

Connect to the CONTROL S connectors of a VTR or another monitor.

It is then possible to control the whole system with a single Remote Commander.

3 LINE A/LINE B inputs

VIDEO IN connector (BNC type) AUDIO L/R IN jacks (phono jack)

Connect to the video and audio outputs of a VTR or a camera.

VIDEO OUT connector (BNC type) AUDIO L/R OUT jacks (phono jack)

Loop-through outputs of the IN connector and jacks. Connect to the video and audio inputs of another monitor.

75-ohm termination switch

When only the VIDEO IN connector is used (nothing is connected to the VIDEO OUT connector), set this switch to ON.

When both connectors are used together for a loop-through connection, set this switch to OFF.

4 MONITOR OUT connectors

VIDEO connector (BNC type) AUDIO L/R jacks (phono jacks)

The video and audio signals supplied from the LINE A, LINE B, VTR or AV input selected by the front panel input select keys are output from these connectors.

Connect to the video and audio inputs of another monitor, VTR, etc.

5 VTR connector (8-pin)

Connect to a VTR with an 8-pin TV connector.

6 DIGITAL AUDIO jack (phono jack)

Connect to the audio output of an audio source to listen to the sound from the connected audio source while viewing the picture from the DIGITAL RGB connector.

7 DIGITAL RGB connector (9-pin, D-sub)

Connect to the digital RGB output of a microcomputer.

8 INTENSITY switch

Normally set to OFF. When a microcomputer provided with intensity output is connected, set to ON for 16-color display.

9 AV switch

Set to ON so that the monitor is automatically switched to the AV input when a signal is input from the AV connector, taking priority over the LINE A, LINE B or VTR input previously selected by the input select keys on the front panel. Set to OFF to select the AV input manually by pressing the AV input select key.

10 SUPERIMPOSE switch

Normally set to ON.

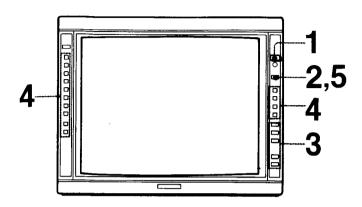
Set to OFF to display the analog RGB signal from the microcomputer connected to the AV connector.

11 AV connector (21-pin)

Connect to the 21-pin multiconnector of an 8 mm video cassette recorder or the analog RGB multioutput connector of a microcomputer.

1-2. OPERATION

DISPLAYING THE PICTURE



- 1 Depress the POWER switch.

 One of the input select keys illuminates.
- 2 Press the CONTROL key. The selected input select key blinks and all control keys on the front illuminate. (If the control keys do not appear, set the MANUAL CONTROL switch on the rear to ON.)
- 3 Press the desired input select key.

 The pressed key blinks and the picture from the selected input is displayed on the screen and the sound is heard through the speakers.

 (For selecting the AV or DIGITAL input, see "Notes on
- input selection".)

 4 Adjust the picture and sound.
- 5 Press the CONTROL key to extinguish the controls keys so that only the selected input select key illuminates.

SUPERIMPOSING

To superimpose the data from the microcomputer connected to the AV connector over the picture, proceed as follows. (The data should be processed for superimposition on the microcomputer.)

- 1 Set the SUPERIMPOSE switch to ON.
- 2 Press the LINE A, LINE B or VTR input select key to display the picture on which the data is to be superimposed on the monitor screen.
- 3 Press the AV input select key.
 The data is superimposed over the picture.
- 4 Adjust the contrast of the superimposed data with the PICTURE (RGB) control.

NOTES ON INPUT SELECTION

AV input and SUPERIMPOSE switch

Set the SUPERIMPOSE switch on the rear as follows, according to the signal supplied to the AV connector.

SUPERIMPOSE switch	Signal to be displayed
ON	 To display the composite video signal from an 8 mm video cassette recorder, etc. To perform superimposition. (See "SUPERIMPOSING".)
OFF	 To display the analog RGB signal from a microcomputer, etc. In this case, the sync signal should be supplied to pin 20 of the AV connector.

- When the AV input select key is pressed with the SUPERIMPOSE switch ON, the previously selected LINE A, LINE B or VTR input select key blinks together with the AV key.
- When it is pressed with the SUPERIMPOSE switch OFF, only the AV key blinks.

AV input and AV switch

When the AV switch on the rear is set to ON, the monitor is automatically switched from the LINE A, LINE B or VTR input to the AV input if a signal is input to the AV connector. Set the AV switch to OFF to select the AV input manually by pressing the AV input select key.

DIGITAL input

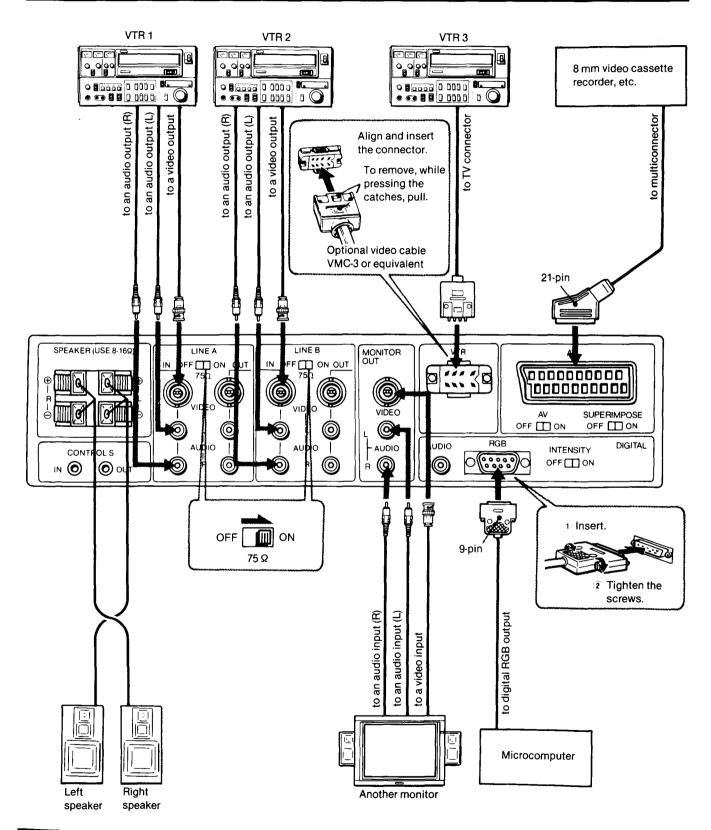
- To display the digital RGB signal from a microcomputer provided with intensity output in 16 colors, set the INTENSITY switch on the rear to ON.
- If necessary, center the picture from the DIGITAL RGB connector with the H CENTER control on the rear panel.

Note

The COLOR, HUE and SHARP control keys do not function when the DIGITAL input is selected or the AV input is selected with the SUPERIMPOSE switch OFF.

1-3. SYSTEM CONNECTIONS

CONNECTION DIAGRAM

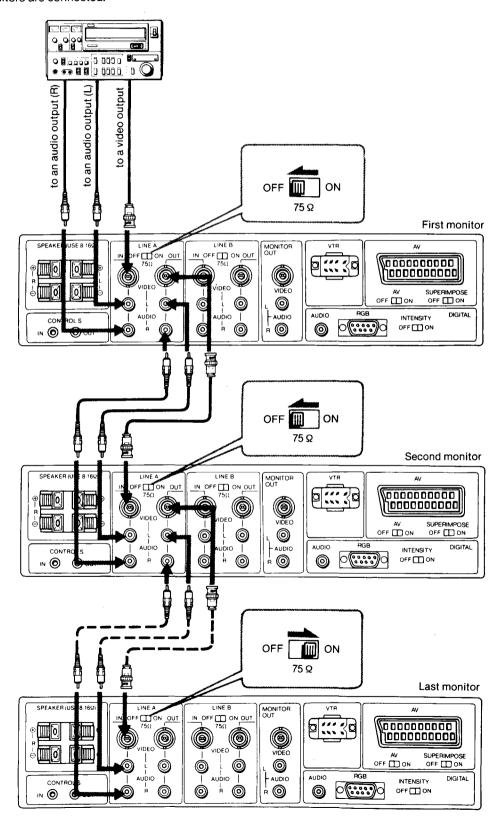


Note

- When a microcomputer has an analog RGB output connector, connect it to the AV connector.
- When a microcomputer has only a composite video output connector, connect it to the LINE A or LINE B VIDEO IN connector.

CONNECTING SEVERAL MONITORS

A loop-through connection is convenient for monitoring the same signal on ther monitors. Up to 10 monitors can be connected. It is recommended to use a signal distributor when several monitors are connected.



CONTROL S CONNECTION

The following connections allow remote control of several

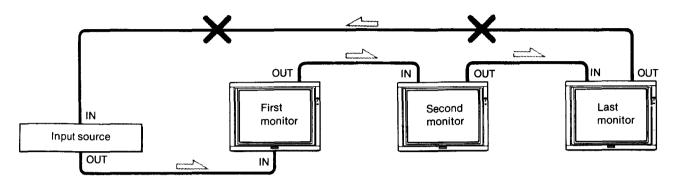
monitors and a VTR through a single monitor. Exemple 1 Input source with to CONTROL S CONTROL S output connectors CONTROL S OUT First monitor Remote Commander supplied with the input source CONTROL S Second monitor OUT CONTROL S Last monitor OUT Example 2 Remote Commander CONTROL S supplied with IN ① First monitor OUT the PVM-2130QM/ 2730QM to CONTROL S Input source with input **CONTROLS** Remote Commander connectors supplied with the input source to CONTROL S output CONTROL S Second monitor OUT CONTROL S Last monitor OUT

- 11 -

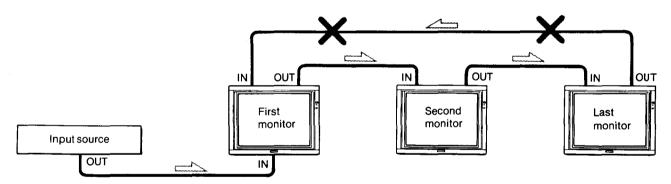
Note

Do not use the following loop connections.

Example 1



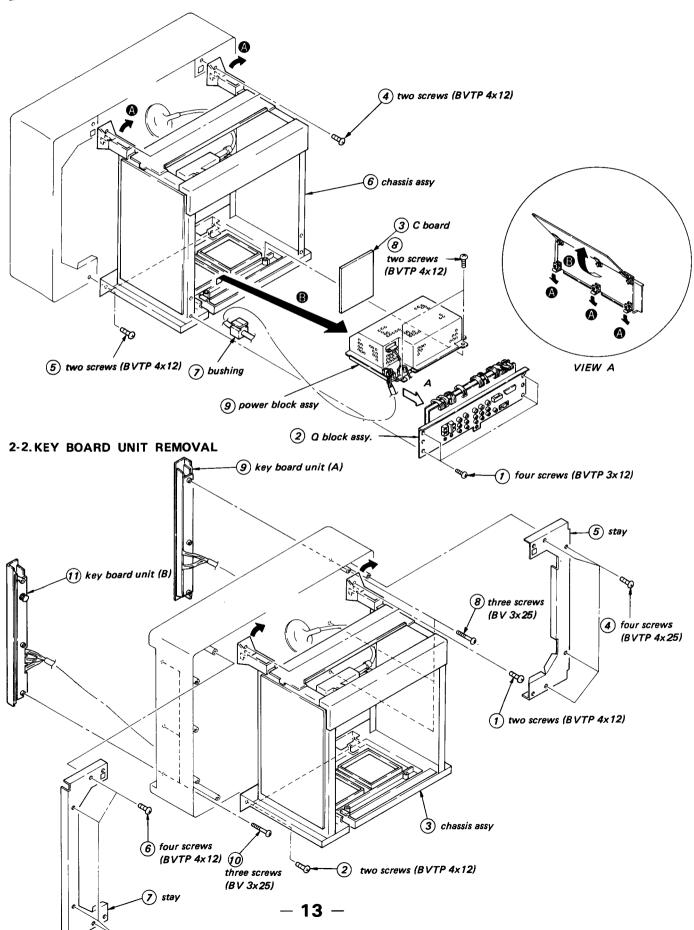
Example 2



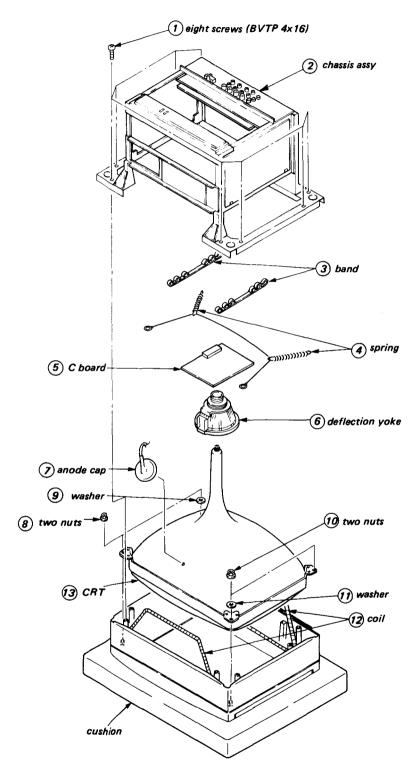
CONTROL S signal flow

SECTION 2 DISASSEMBLY

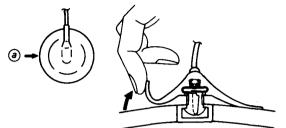
2-1. POWER BLOCK ASSY AND CHASSIS ASSY REMOVAL



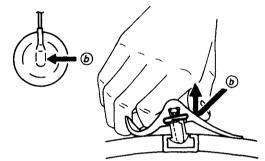
2-3. PICTURE TUBE REMOVAL



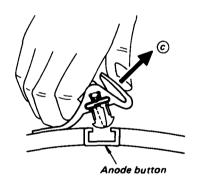
Removing Procedures



1) Turn up one side of the rubber cap in the direction indicated by the arrow (a)



2) Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow (b)



3 When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©

SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. White Balance

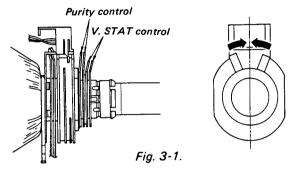
Note: Test Equipment Required

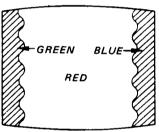
- 1. Color-bar/Pattern Generator
- 2. Degausser

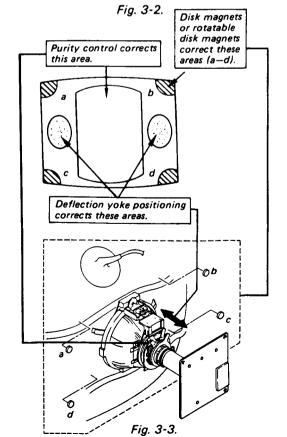
3-1. BEAM LANDING

Preparation:

- Input the RASTER pattern.
- Before starting, degauss the entire screen.
- Turn on set power supply and input a RASTER signal.
- 2. Evenly degauss the entire screen.
- 3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Figure 3-1.
- 4. Input a red signal.
- 5. Move the deflection yoke back, and adjust the purity control so that RED is in the center and GREEN and BLUE are at the sides, evenly. (Figure 3-2.)
- Move the deflection yoke forward so that the entire screen is red.
 - If the deflection yoke is pushed all the way to the CRT then moved slightly back, landing adjustment is easier.
- 7. Substitute GREEN, then BLUE for RED in step 4 and check landing.
- 8. Rotate RED, GREEN and BLUE once each and check landing.
- 9. When landing is not right, adjust the purity control and use magnets as shown in Figure 3-3, then repeat steps 7 and 8.
- When a magnet is used, be sure to perform step
 and tighten deflection yoke mounting screw loosely.



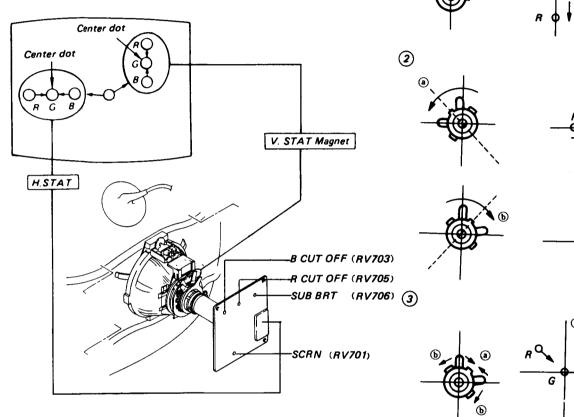




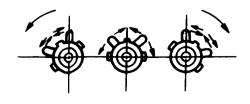
3-2. **COVERGENCE**

Preparation:

- Before starting, perform FOCUS, H. SIZE, V. SIZE and V. LIN adjustments.
- Set BRIGHTNESS control to fully counterclockwise.
- Feed in the dot pattern.
- (1) Horizontal and Vertical Static Convergence



- 1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen (Horizontal movement)
- 2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen (Vertical movement)
- 3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.

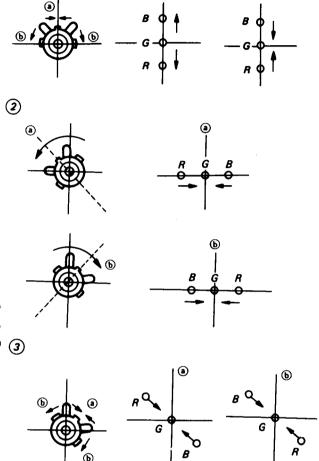


(1)

dots move as shown below.

4. When the V. STAT magnet is moved in the direc-

tion of arrow (a) and (b), Red, Green and Blue

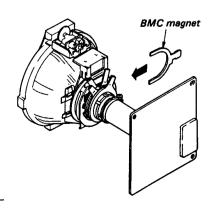


If blue dot does not coincide with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V. static convergence.

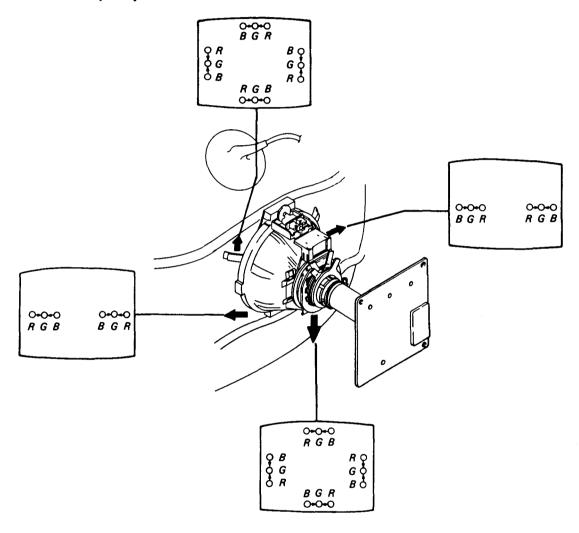
In either case, repeat Beam Landing Adjustment.



(2) Dynamic Convergence Adjustment Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
- 1. Loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.



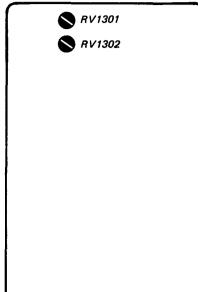
3-3. WHITE BALANCE ADJUSTMENT

- 1) SCREEN (G₂) adjustment
- 1. Confirm that G_1 line voltage is 30 ± 5 Vdc.
- 2. Adjust CUT OFF(R,B) so that R,B cathode voltage becomes 180 V DC. Adjust with G₂ VT immediately prior to the disappearing of the luminscent line.
- 2) W/B adjustment
- 1. Input a all white signal.
- 2. Set the PICTURE control to minimum and turn the BRIGHT control mechanical center.
- 3. Set R CUT OFF(R,B) and RV703 (B CUT OFF) to minimum.
- 4. Turn RV701 (SUB BRT) slowly to obtain a faintly visible cross-hatch. Note the color tjat first becomes visible by
- turning RV701. 5. Adjust the other two BKG controls for best

white balance (neutral gray) of the faint cross-

- 6. Set the PICTURE control fully clockwise. Observe the screen and adjust the RV1301 (G,H/L), RV1302 (B,H/L) controls for best white balance. (B Board)
- 7. Repeat steps 1, through 7.

B Board

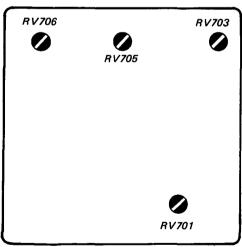


RV1301 (G.H/L)

RV1302 (B.H/L)

(Component side)

C Board



RV701 (SCRN)

RV703 (B CUT OFF) RV705 (R CUT OFF)

RV706 (SUB. BRT)

(Component side)

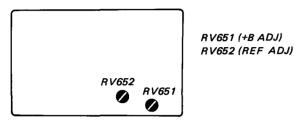
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. FA BOARDS ADJUSTMENT

+B Line Adjustment

- 1. Supply 220V ac to with variable auto-transformer.
- 2. Adjust RV651 so that the +B line is 140V±0.5V.
- 3. Adjust RV652 so that the pin (1) or IC651 is $32\pm0.1V$.

FA Board



(Component side)

4-2. D BOARD ADJUSTMENTS

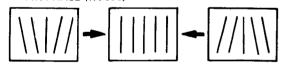
Horizontal Position Adjustment

 Check that H center moves to the right and left with horizontal position VR (RV555), then adjust horizontal position to center.

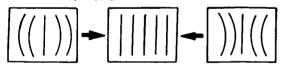
Picture Distortion Adjustment

Picture distortion adjustment
 Input a signal equivalent to a crosshatch signal.

• PIN PHASE (RV553)



• PIN AMP (RV552)



- 2. Adjust RV554 (H.SIZE) so that H.SIZE is best.
- 3. Adjust RV555 (H.CENT) so that horizontal position is center.

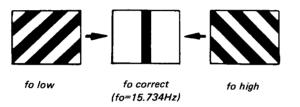
V.SIZE V.CENT

Adjust RV503 and RV509 for a best vertical SIZE Picture.

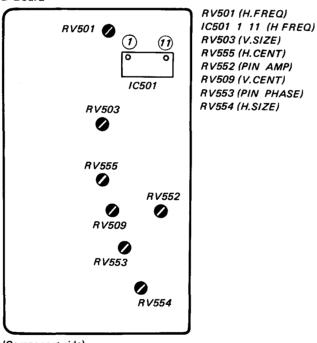
H.FREQ Adjustment

- 1. Input a color bar signal and short between IC501 pins (1) and (1).

 Also short board IC401 pins (35) and (36).
- 2. Adjust H.FREQ VR (RV501) so that picture flow is as shown in Figure.
- 3. After adjustment, remove the connections in step 1.



D Board

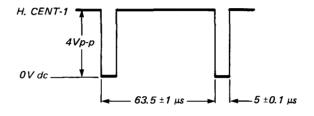


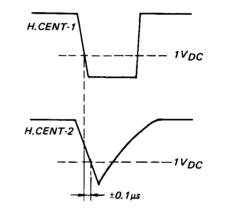
(Component side)

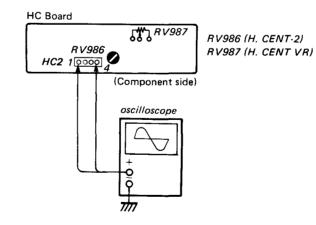
4-3. HC BOARD ADJUSTMENT

H. CENTER Adjustment (DIGITAL RGB)

- Connect to the digital RGB output connector of a microcomputer.
- 2. Press to select the RGB mode.
- 3. Turn the H. CENT VR (RV987---- Rear control panel) to center position.
- 4. Connect the oscilloscope to pin (4) of HC-2 connector and pin (1) of HC-2 connector.
- 5. Adjust RV986 (H. CENT-2) so that the phase difference level is ±0.1 µsec.



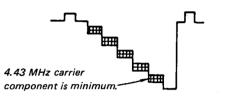




4-4. B BOARD ADJUSTMENTS

Y Chroma Adjustment

- 1. Input a PAL color bar signal.
- Connect an oscilloscope to pin (35) of IC301, and adjust so that chroma component is minimum on pin (35) of IC301 waveform while tracking with L451 (4.43 MHz).



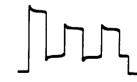
- 3. Input a NTSC (3.58) color bar signal.
- 4. Connect an oscilloscope to pin 35 of IC301 and adjust so that croma component is minimum on pin 35 of IC301 waveform while tracking with L452.

COLOR BALANCE Adjustment

- Input a SECAM color bar signal and set PICTURE to maximum.
 - Press "RESET" to set color to standard state,
- 2. Observe blue output (TP33) waveform on the osilloscope and adjust L421 (B-Y) so that the black portion of the color bar is the same level as the pedestal.



 Observe blue output (TP31) waveform on the oscilloscope and adjust L405 (R-Y) so that the black portion of the color bar is the same level as the pedestal.



ANT 1.

2.

3. 4.

APC 4.43 1. 2. 3. 3.58 4. 5.

ACC

2.

3.

4

CT358 (3.58) CT443 (4.43)

L405 (R-Y)

L421 (B-Y)

RV302 (ACC)

RV318 (S. HUE)

RV303 (b)

T301 (DAT)

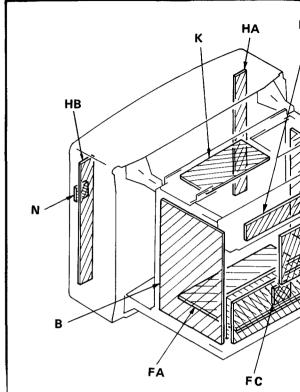
oscilloscope

L451 (4.43 MHz)

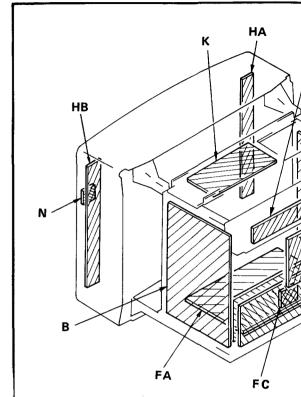
L452 (Y/CHROMA)

SECTION

5-1. CIRCUIT BOARDS LOCATION



DIAGRAM



4-4. B BOARD ADJUSTMENTS

Y Chroma Adjustment

connector of a

r control panel)

HC-2 connector

ne phase differ-

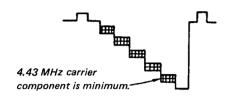
-5 ±0.1 μs

1VDC

86 (H. CENT-2)

87 (H. CENT VR)

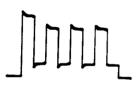
- 1. Input a PAL color bar signal.
- 2. Connect an oscilloscope to pin (35) of IC301, and adjust so that chroma component is minimum on pin (35) of IC301 waveform while tracking with L451 (4.43



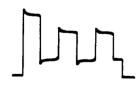
- 3. Input a NTSC (3.58) color bar signal.
- 4. Connect an oscilloscope to pin (35) of IC301 and adjust so that croma component is minimum on pin (35) of IC301 waveform while tracking with L452.

COLOR BALANCE Adjustment

- 1. Input a SECAM color bar signal and set PICTURE to max imum.
- Press "RESET" to set color to standard state.
- 2. Observe blue output (TP33) waveform on the osilloscope and adjust L421 (B-Y) so that the black portion of the color bar is the same level as the pedestal.



3. Observe blue output (TP31) waveform on the oscilloscope and adjust L405 (R-Y) so that the black portion of the color bar is the same level as the pedestal.



ANTI-PAL, LINE CRAWLING Adjustment

- 1. Input a PAL color bar signal and set PICTURE to
 - Press "RESET" to set COLOR, HUE and BRT to stan-
- 2. Confirm that there is no color on the first anti-PAL signal frames at the right and left of the picture. If sides while tracking with RV303.
- 3. Adjust T301 (DAT) for minimum line crawling.
- 4. Confirm the anti-PAL adjustment in 2, and repeat 3, and 1 if necessary.

APC Adjustment

4.43 adjustment

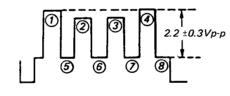
- 1. Input a PAL color bar signal.
- 2. Short pin (11) and pin (12) on IC301.
- 3. Adjust CT443 to get color sync.

3.58 adjustment

- 4. Input a NTSC (3.58 MHz) color bar signal.
- 5. Adjust CT358 to get color sync.

ACC, HUE CENT Adjustment

- 1. Input a PAL color bar signal and set PICTURE maxi-
- 2. Adjust RV302 (ACC ADJ) so that blue output (TP33) waveform is as shown in figure.



- 3. Input a NTSC (3.58 or 4.43) color bar signal and set PICTURE to maximum.
 - Press "RESET" to set COLOR, HUE and BRIGHT-NESS to standard state.
- 4. Adjust RV318 (S. HUE) so that blue output (TP33) waveform is as shown in figure.

4-5. SAFETY CHECK ADJUSTMENT

CT443

RV302 35 1C301

0

7301 CT358

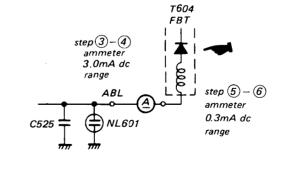
B Board

RV303

(Component side)

HOLD DOWN ADJUSTMENT (*R531)

- 1. Turn the POWER switch ON, and receive entirely white signals and set the PICTURE and BRIGHTNESS control to maximum
- 2. Confirm that the voltage of the IC1510 (1) pin is more than 15.78V DC when the set is operating normally with 120V AC supply.
- 3. Adjust ABL current to 1400 ± 30 µA with PICTURE and BRIGHTNESS. (ammeter 3.0mA dc range)
- 4. Confirm that there is less than 18.35V DC where by the raster disappears during operation of hold-down circuit. (HOLD DOWN check point of IC1510 (1) pin)
- 5. Adjust ABL current to 210 \pm 3 μA with PICTURE and BRIGHTNESS. (ammeter 0.3mA dc range)
- 6. Confirm that there is less than 19.25V DC where by the raster disappears during operation of hold-down circuit. (HOLD DOWN check point of IC1510 (1) pin)
- Note: If the hold-down circuit starts operating in the above case, switch OFF the POWER of the set immediately.
- 7. If above steps is not satisfied, select resistance value of R597 and repeat above steps 1 through 6.



SECTION 5 DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



4-5. SAFETY CHECK ADJUSTMENT

(Component side)

RV302 35 1C301

B Board

et PICTURE to

nd BRT to stan-

e first anti-PAL

picture. If sides

2, and repeat 3,

PICTURE maxi-

e output (TP33)

ar signal and set

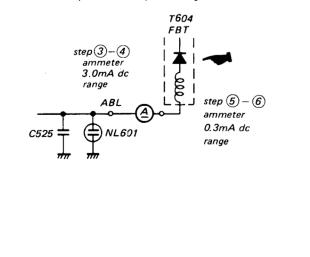
and BRIGHT-

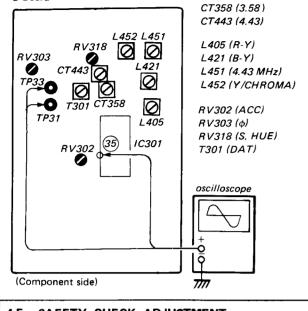
output (TP33)

rawling.

- 1. Turn the POWER switch ON, and receive entirely white signals and set the PICTURE and BRIGHTNESS control
- 2. Confirm that the voltage of the IC1510 (1) pin is more
- 3. Adjust ABL current to 1400 ± 30 µA with PICTURE
- 4. Confirm that there is less than 18.35V DC where by the raster disappears during operation of hold-down circuit. (HOLD DOWN check point of IC1510 1) pin)
- 5. Adjust ABL current to 210 ± 3 µA with PICTURE and BRIGHTNESS. (ammeter 0.3mA dc range)
- 6. Confirm that there is less than 19.25V DC where by the raster disappears during operation of hold-down circuit. (HOLD DOWN check point of IC1510 (1) pin)

Note: If the hold-down circuit starts operating in the above case, switch OFF the POWER of the set

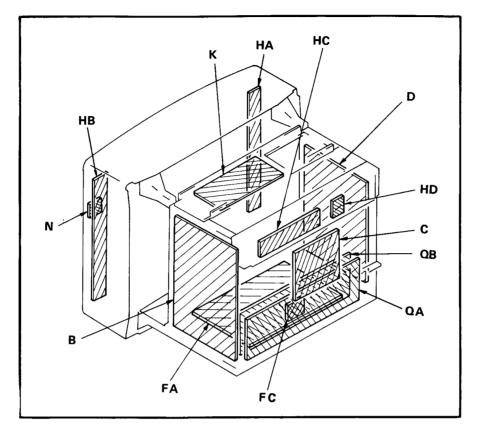




HOLD DOWN ADJUSTMENT (*R531)

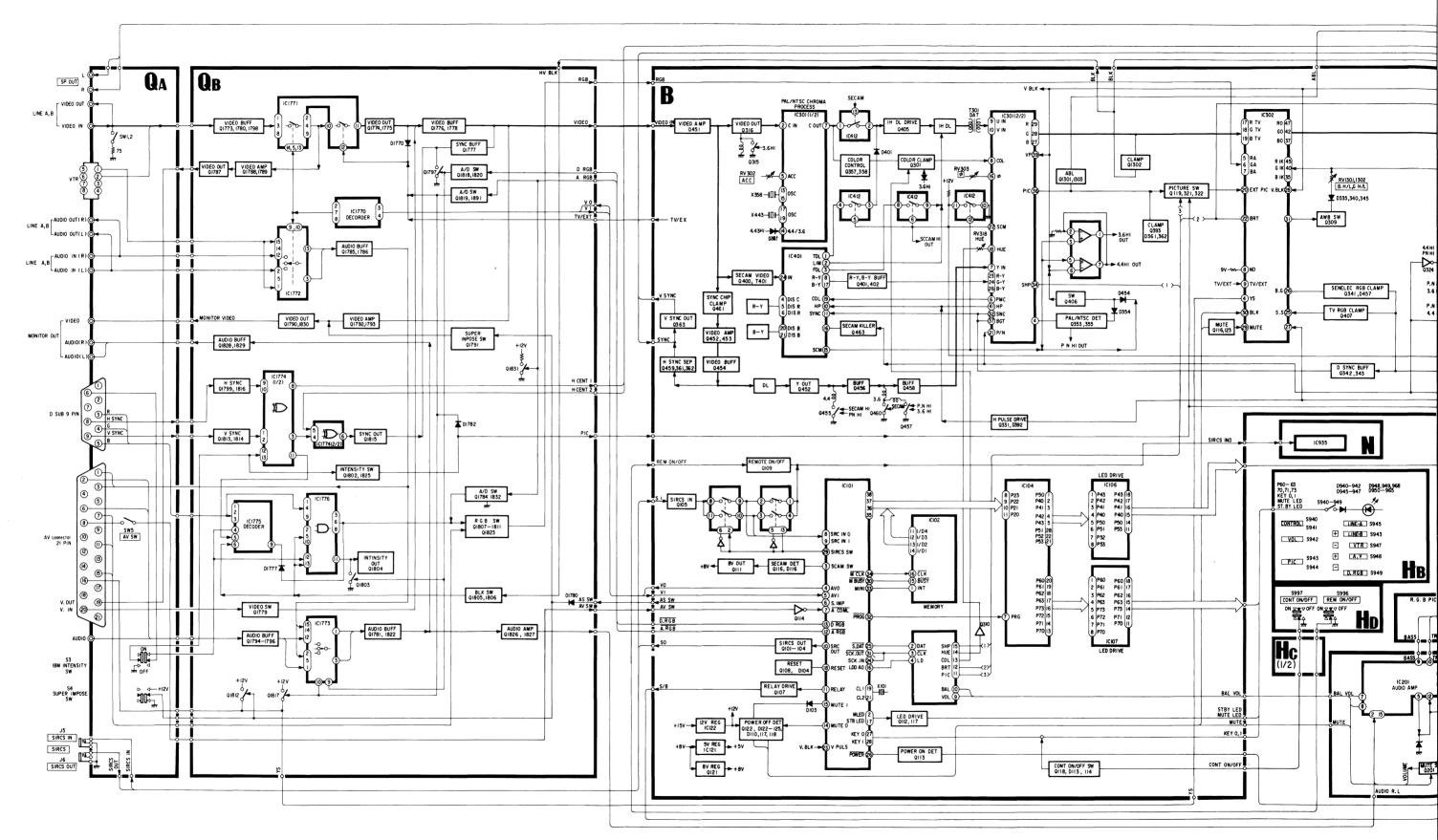
- than 15.78V DC when the set is operating normally with 120V AC supply.
- and BRIGHTNESS. (ammeter 3.0mA dc range)

7. If above steps is not satisfied, select resistance value of R597 and repeat above steps 1 through 6.

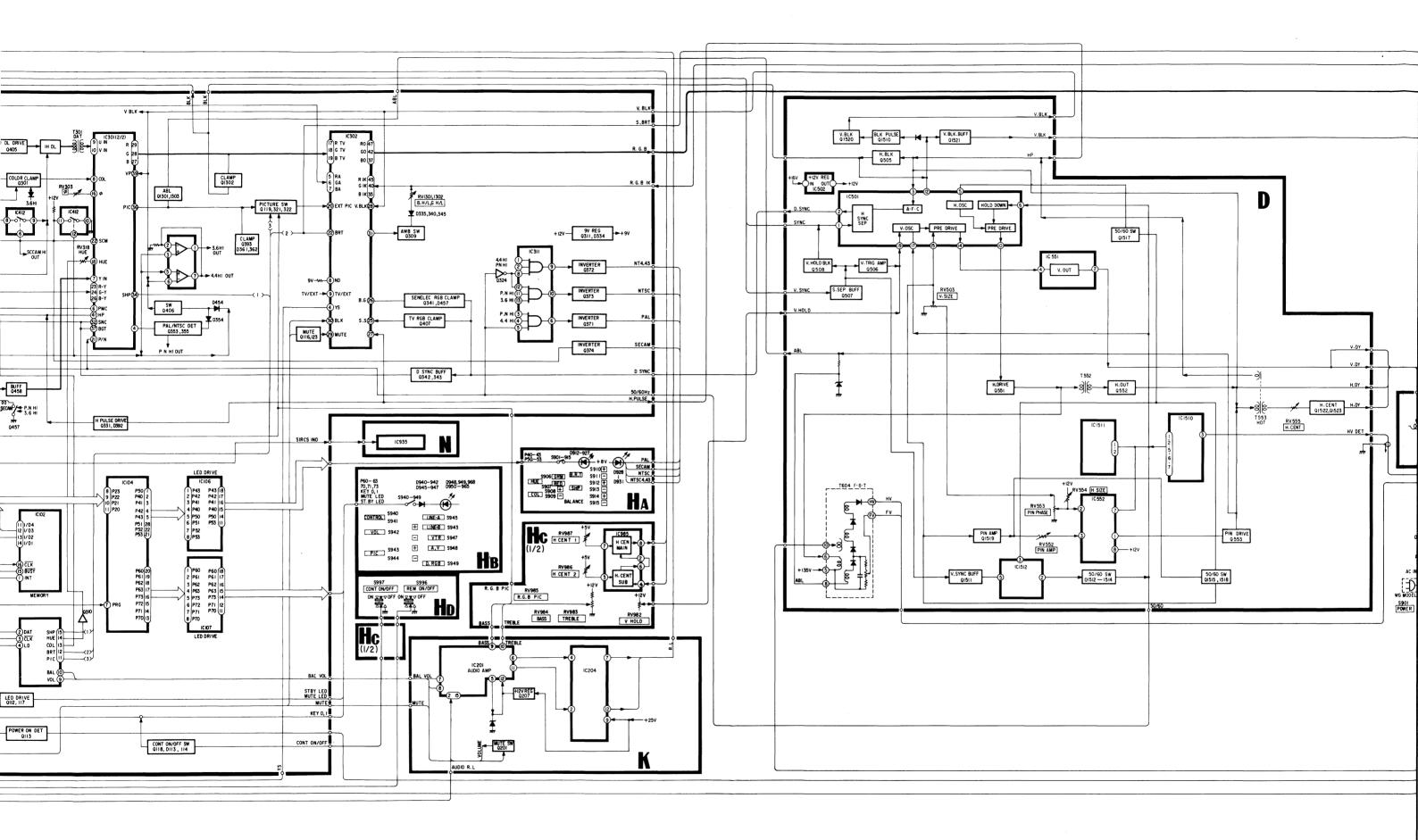


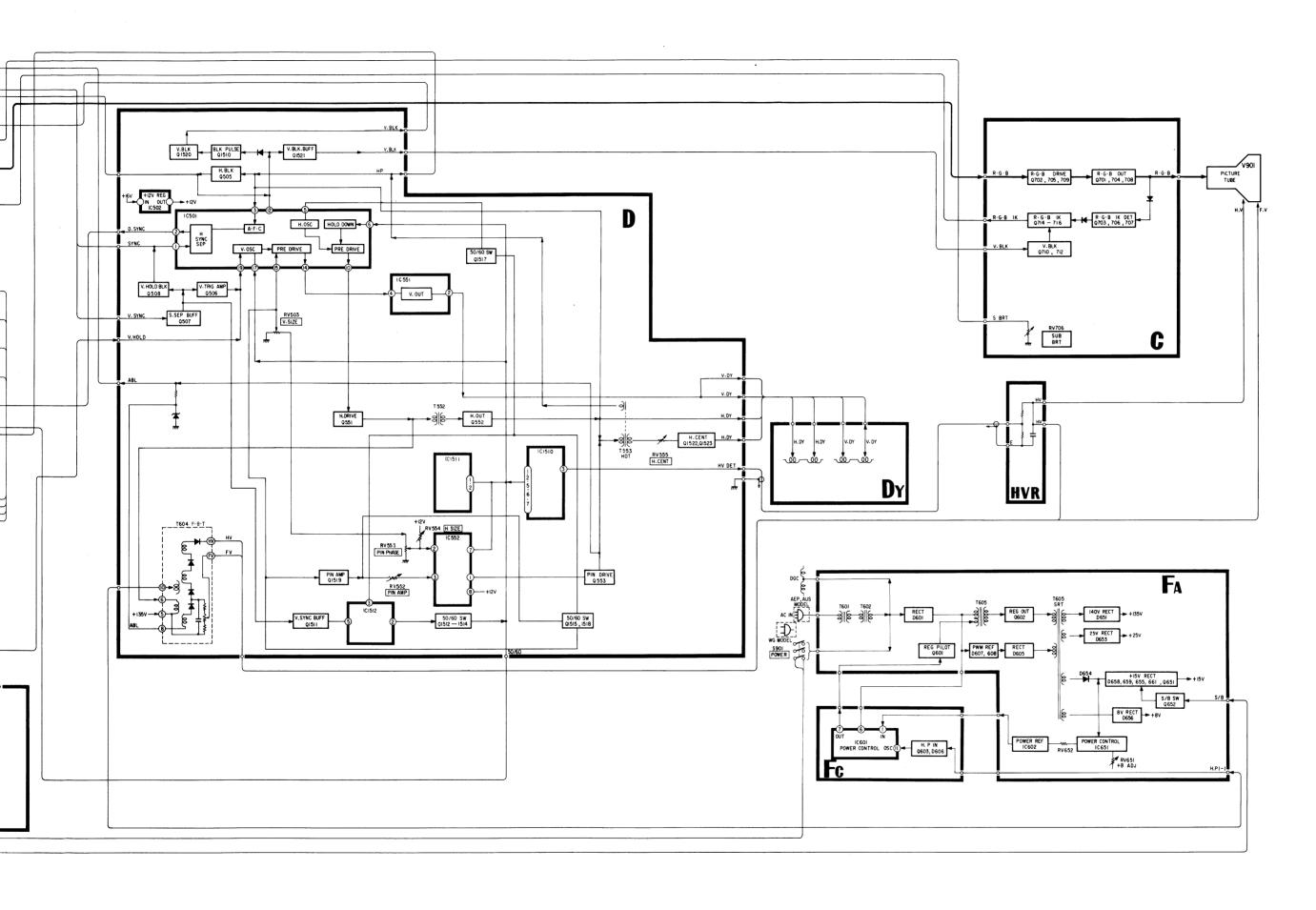
PVM-2130QM PVM-2130QM RM-668

5-2. BLOCK DIAGRAM

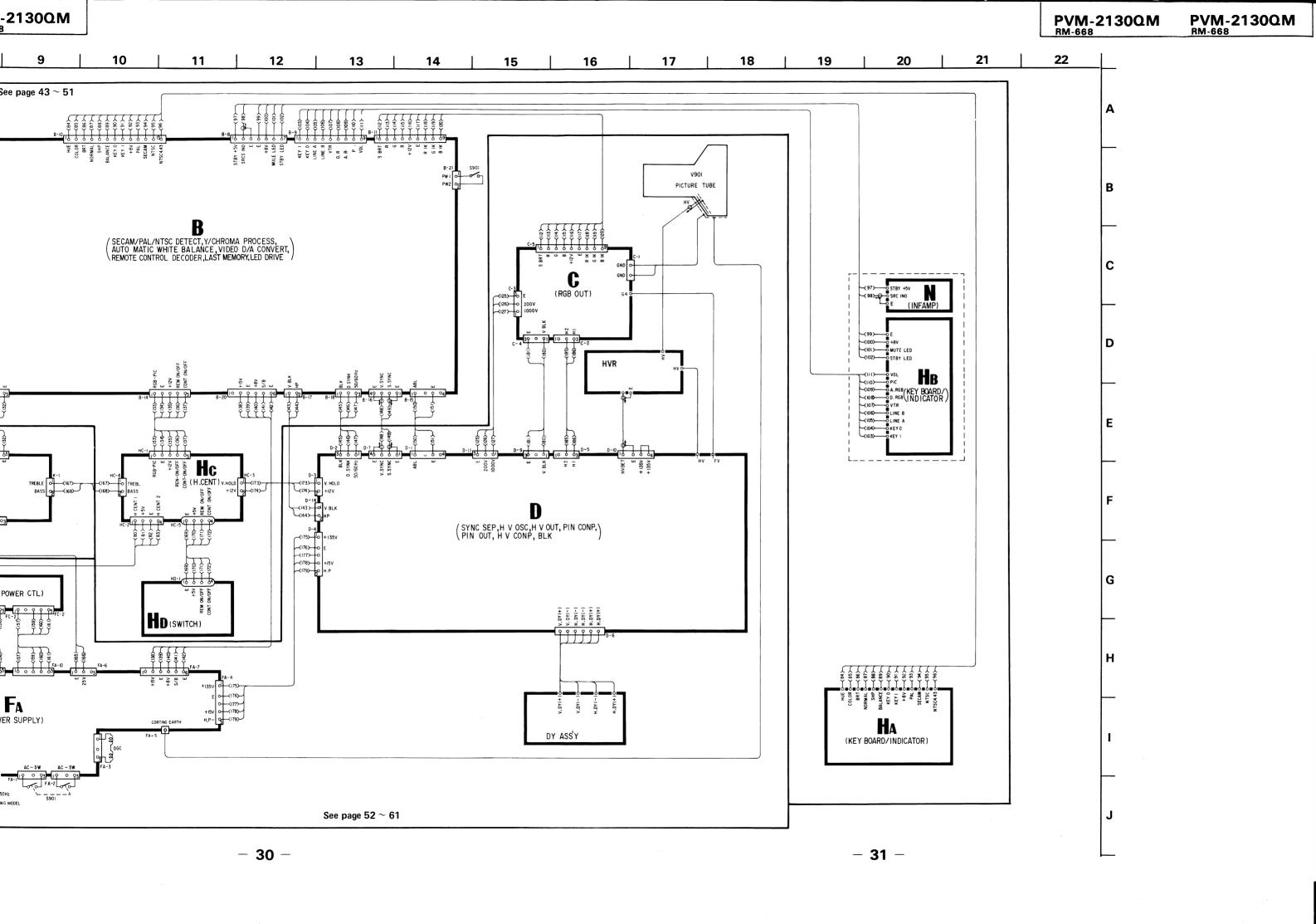


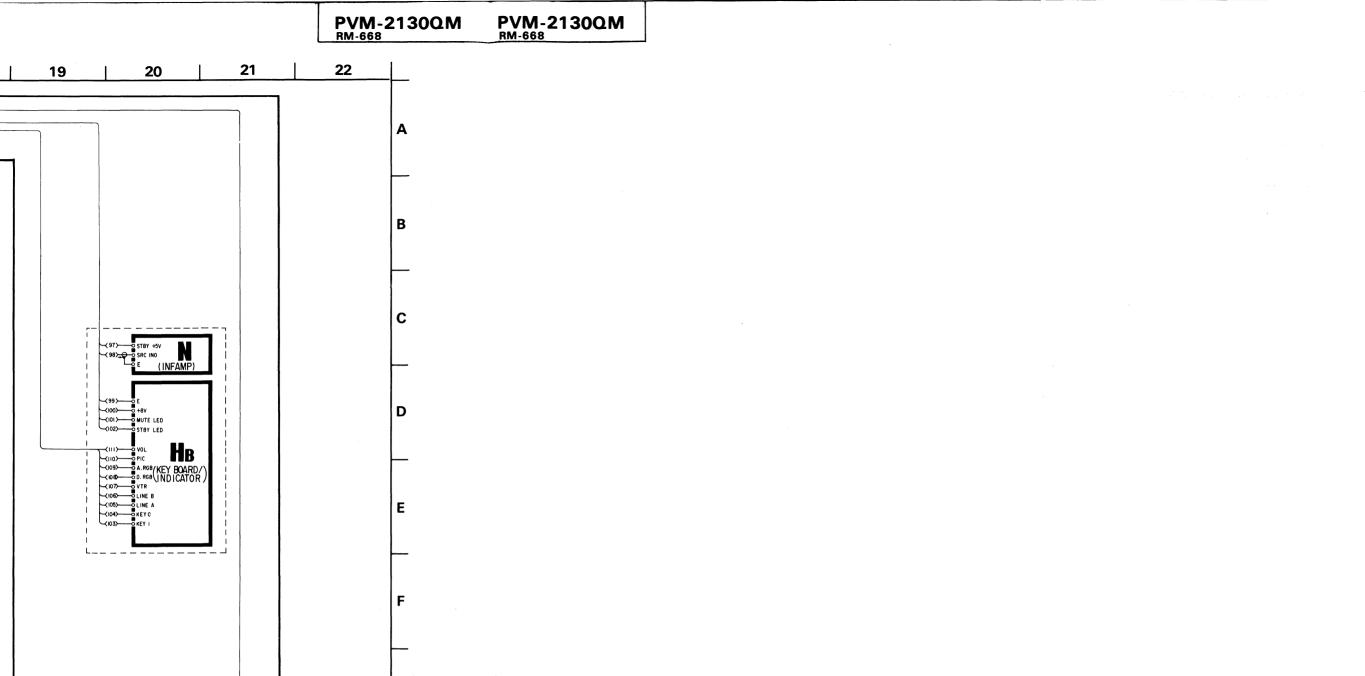
2130QM





See page 52 \sim 61





G

HA
(KEY BOARD/INDICATOR)

- 31 -

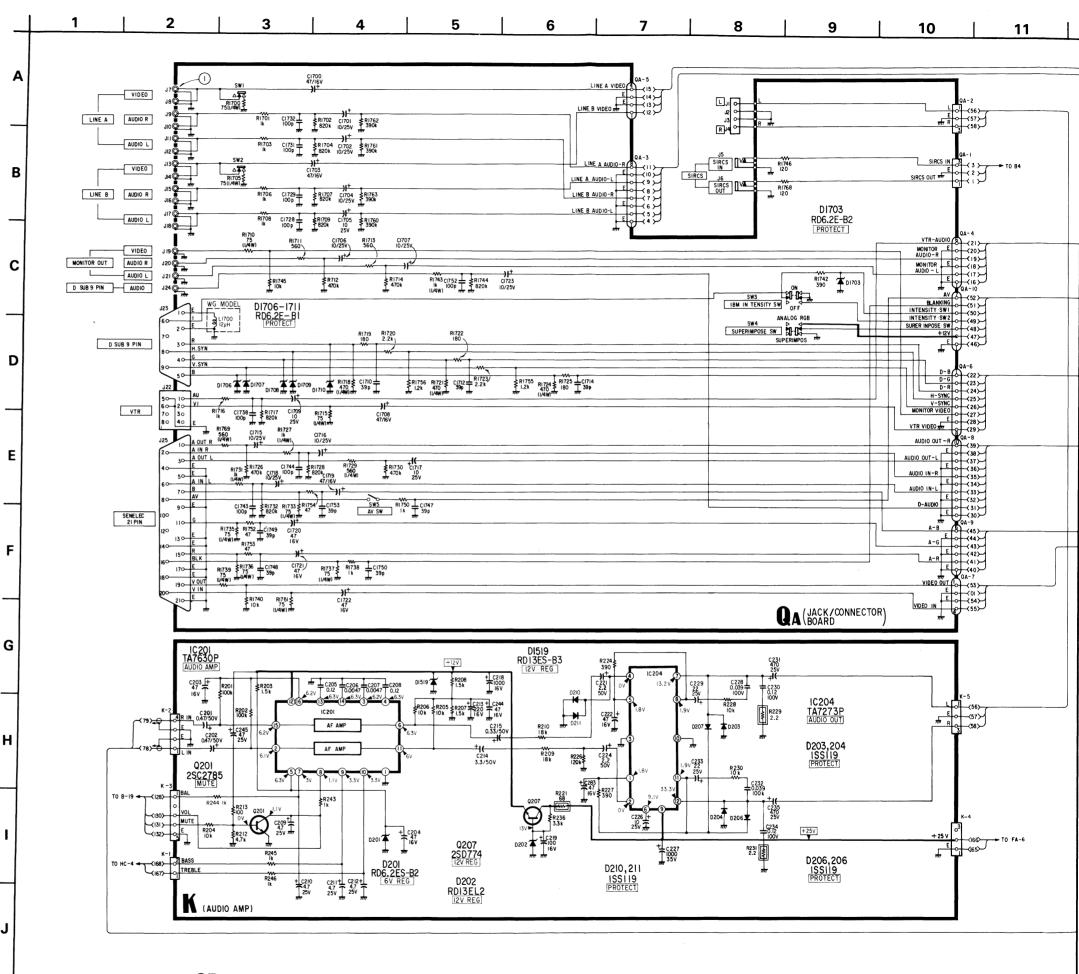
PVM-2130QM RM-668

PVM-2130QM RM-668 PVM-2130QM RM-668

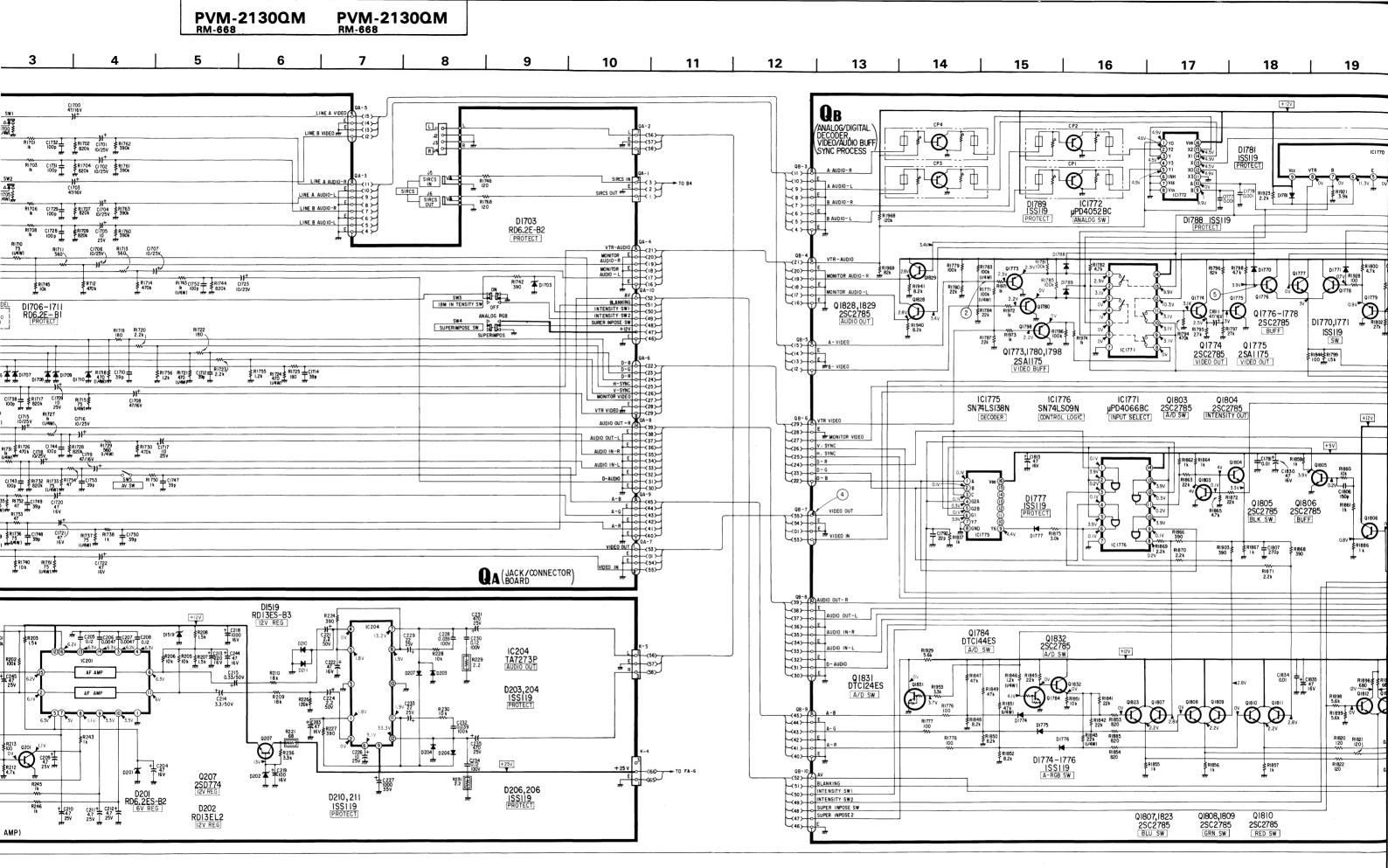
5-4. SCHEMATIC DIAGRAM AND PRINTED WIRING BOARDS

Note:

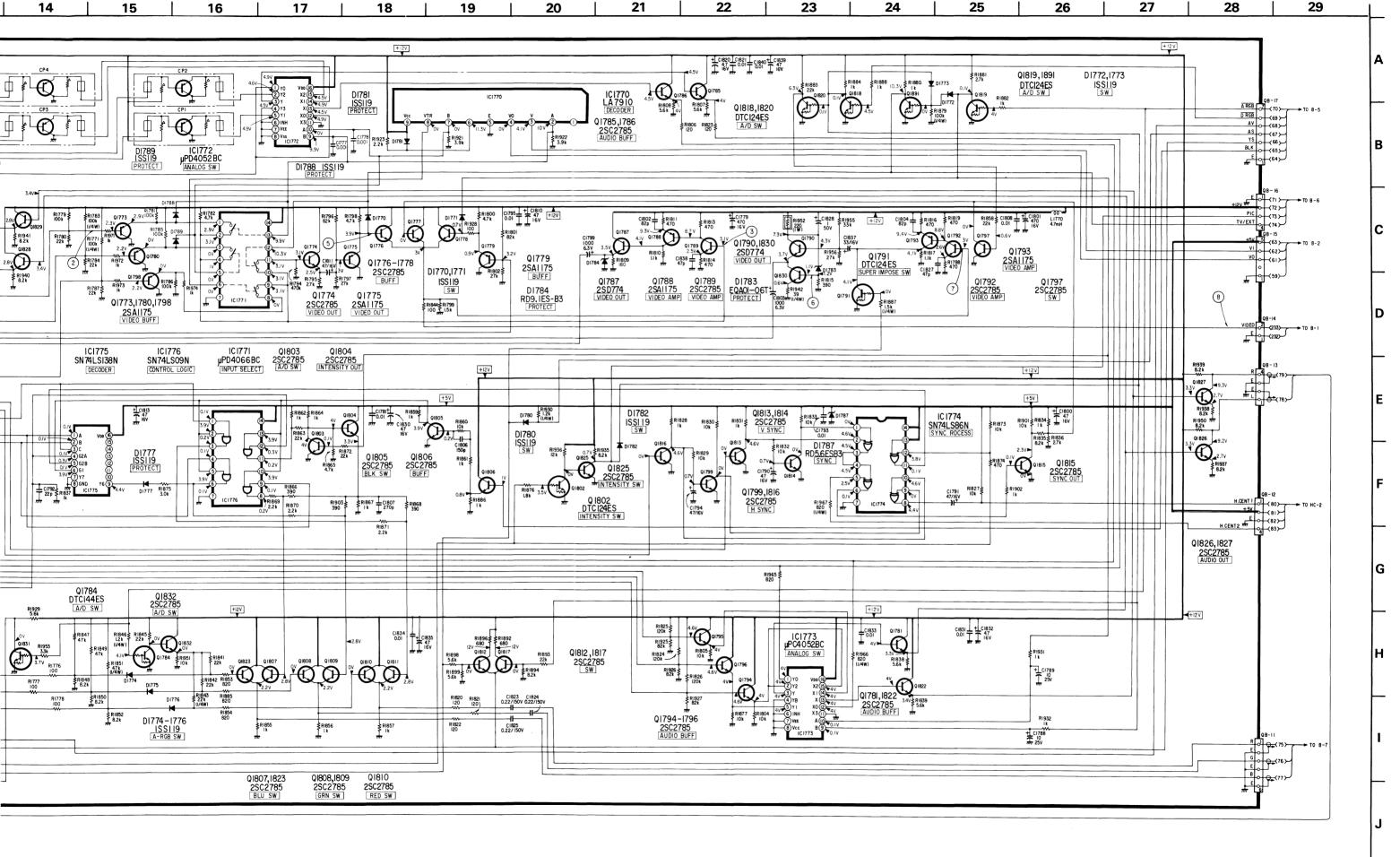
- All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms.¹/₆W unless otherwise noted. $k\Omega$: 1000 Ω , $M\Omega$: 1000 $k\Omega$
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- Δ : internal component.
- panel designation.
- _____ : adjustment for repair.
- : B+ bus.
- === : B- bus.
- Voltages are dc with respect to ground unless otherwise
- Readings are taken with a 10 M Ω digital multimeter.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken with a color-bar-signal input.
- no mark: with PAL color-bar signal received.
 - () : with SECAM color-bar signal received.
- < > : with NTSC (3.58) color-bar signal received. [] : with NTSC (4.43) color-bar signal received.
- * : Selected to yield optimum performance.

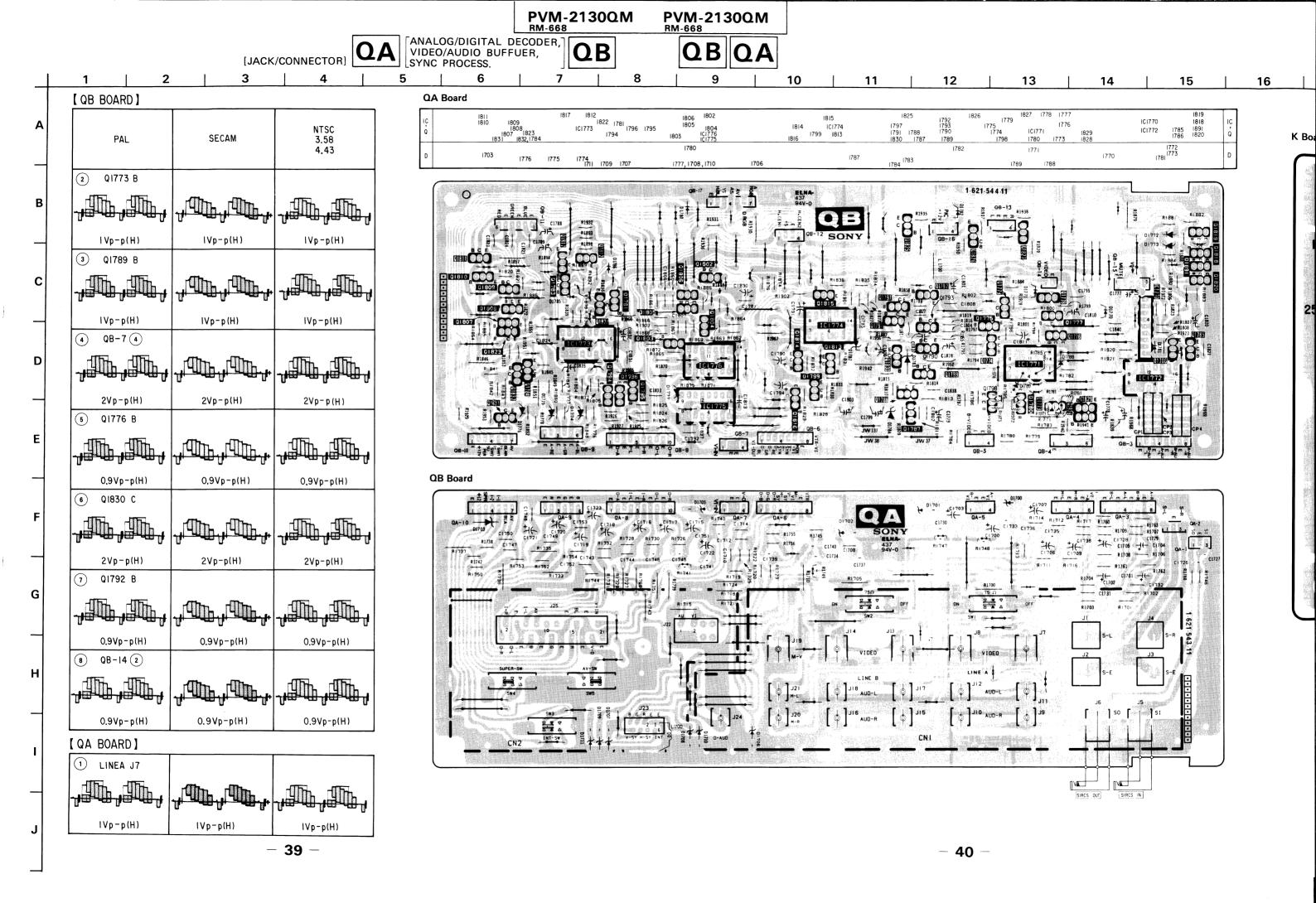


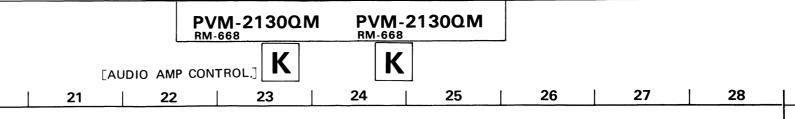
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PVM-2130QM PVM-2130QM RM-668



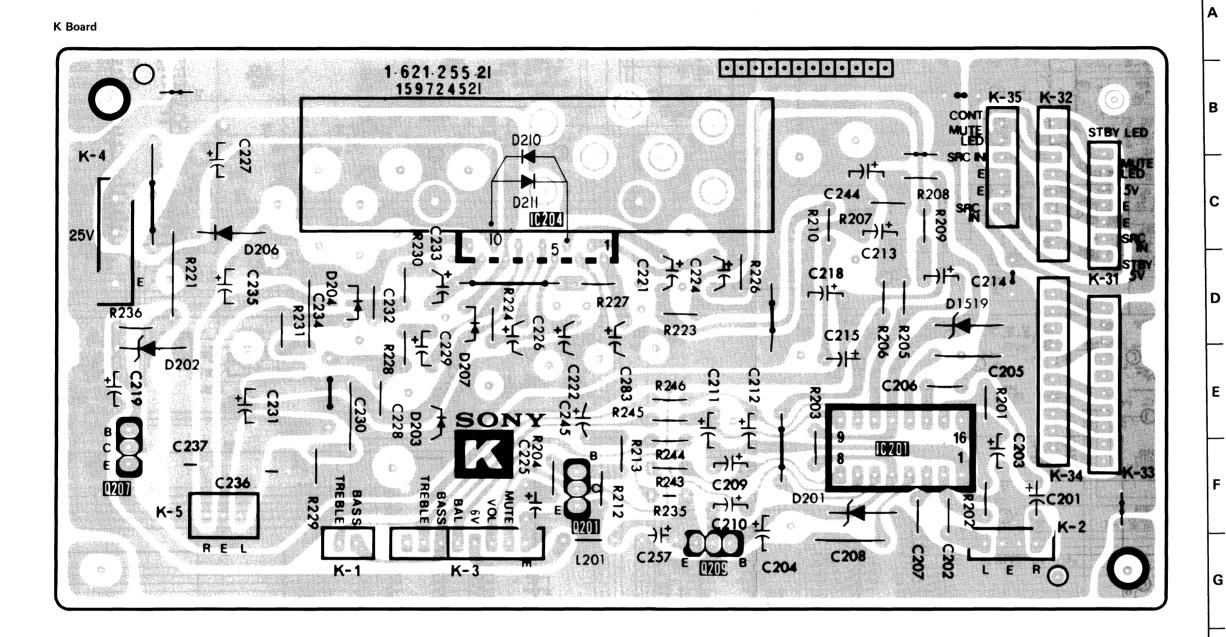












PVM-2130QM RM-668 PVM-2130QM RM-668 15 16 2 5 8 10 11 12 13 14 3 4 6 7 9 1 RISIO + CI320 RI322 CI322 47k T 333 82k T 0.01 D334 Q311 RDIOES-B 2SD774 9V REG 9V REG 27) RI311 ≸ Q331 2SC2785 H. PULSE DRIVE IC302 CXAI024S FGB INTERFACE AUTO MATIC WHITE BALANCE Q400 2SC2785 | IC412 µPD4066BC | D401 ISS119 | Q405 2SC2785 | SECAM VIDEO BUFF | SW | SW | [DL. DUT] | 302 | RA () | 4 | V | |
(4	V	V	V	V	
(9	R6 ()	22	V	R1347	100
(10	G6 ()	22	V	R1347	100
(10	G6 ()	22	V	R1347	100
(10	G6 ()	22	V	R1347	100
(11	R1	G6 ()	V	R1348	100
(11	R1	G6 ()	V	R1348	100
(12	R6 ()	R1348	100		
(13	R6 ()	R1348	100		
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(13	R6 ()	R1348 RI327 ₹ 0400 1.7V R425 2.6V 23) R426 33k ≸ 61435 82yiH 3 20) 7 R364≸ 390 Q1302 2SC2785 BLK (3) Q321,322 2SC2785 PICTUPE SW CPIO5 CPIO4 D339,341 ISSII9 ₹R361 lk 28 R342 R343 8.2k 22k	Tay	DAR	C4

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1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/20| | 1/2 | 137 | 108 | 107 | 108 | 107 | 108 | 107 | 108 | 107 | 108 | 107 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 2.27 | Dec | PR444 RA46 10.1V FR449 0.451 12.1V FR449 0.451 1 5.2 V(6.2 V) (6.2 V) (5.2 V) (5.2 V) (5.3 V) (6.3 V) (7.3 V) (C470[±] 100 T 16 Vmm HUE RV318 R454 \$ 1.5k mg Ε Q30I 2SA1175 I COLOR CLAMP ISSI 19 Q358 Q357 DTCI24ES 2SAI 175 10.7V(0.1V) (0,1V)1(0,7V) R1410 2.2k 10.7V(0V) (10.8V)(10.7V] 7V 0459 T359 3.2V R473 RI29 2.2k(I/4W) ICIQ6,107 TD6238IP LED DRIVE 0363 (12V 2SA1175 V SYNC DRIVE 70(12V) Q362 2SA1175 V SYNC SEP CPIOI 10kz2 0127 0126 Q324 | IC3|| 2SC2785 | TC4073BC | INVERTER | AND 10/16V TION 4.9 V 9 SRC IN 1 IC 0 V 9 SRC IN 0 0 V 9 SRC IN 0 0 V 10 SRC IN 0 0 SRC P43(5) 0V P42(4) 0V P41(3) 0V P40(2) 0V P50(1) 0V P51(25) 0V P52(25) 0V P53(21) RI81 33k RI82 5.6k WRI63 22 WRI62 22 WRI61 22 WRI60 22 IL9V QII6 0 123 R184 33k ICIO4 µPD8243C I/O PORT EXPANDER Ri69 †8V G 8 ENION SOUTH OF THE PROPERTY RIIIO #CIB7 RII4 LIOI RI73 22 MRI73 22 MRI72 22 MRI71 22 MRI70 22 MRI68 22 , O ICIO2 CXKIOO5P LAST MEMORY WRI67 22 66) O AS SW (68) O AS SW (69) O ARGB (70) O ARGB R177\$ \$R178 22k \$22k Q117 2SC2785 MUTE LED DRIVE DI20 V C123 0.047 1 C186 4.9V 7 10 DIO4 RD3.6ES-BI 0 TPI5 TPI6 Q112 2SC2785 ST BY LED DRIVE CIO6 — CIO7 — 339 — 0 V 46V 0310 46V 0310 1 C127 R320 1 SOV R320 W 4.8V QIO9 2SAI175 REMOTE ON/OF RD5.6ES-B3

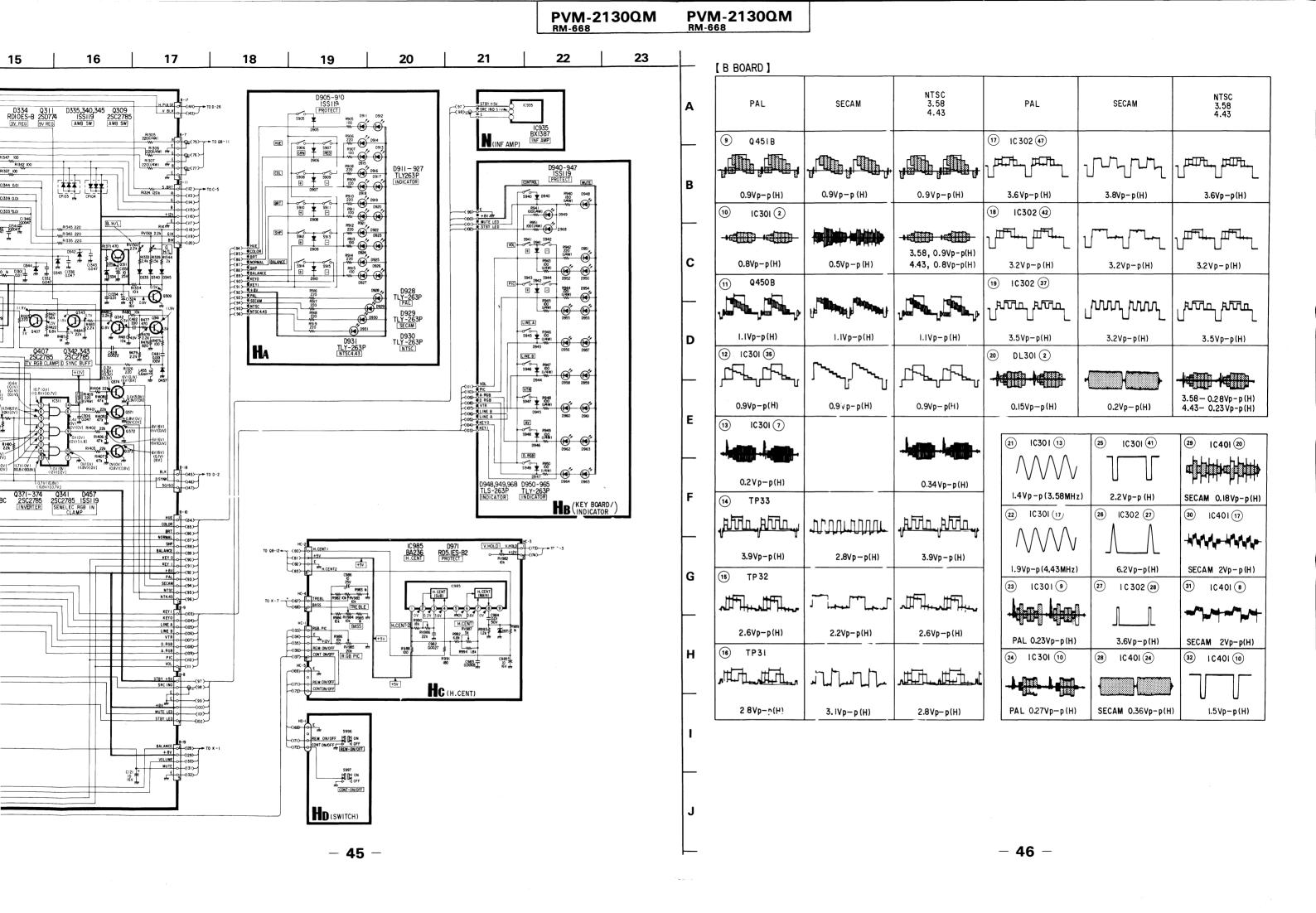
RD5.6ES-B3

SECAH DET

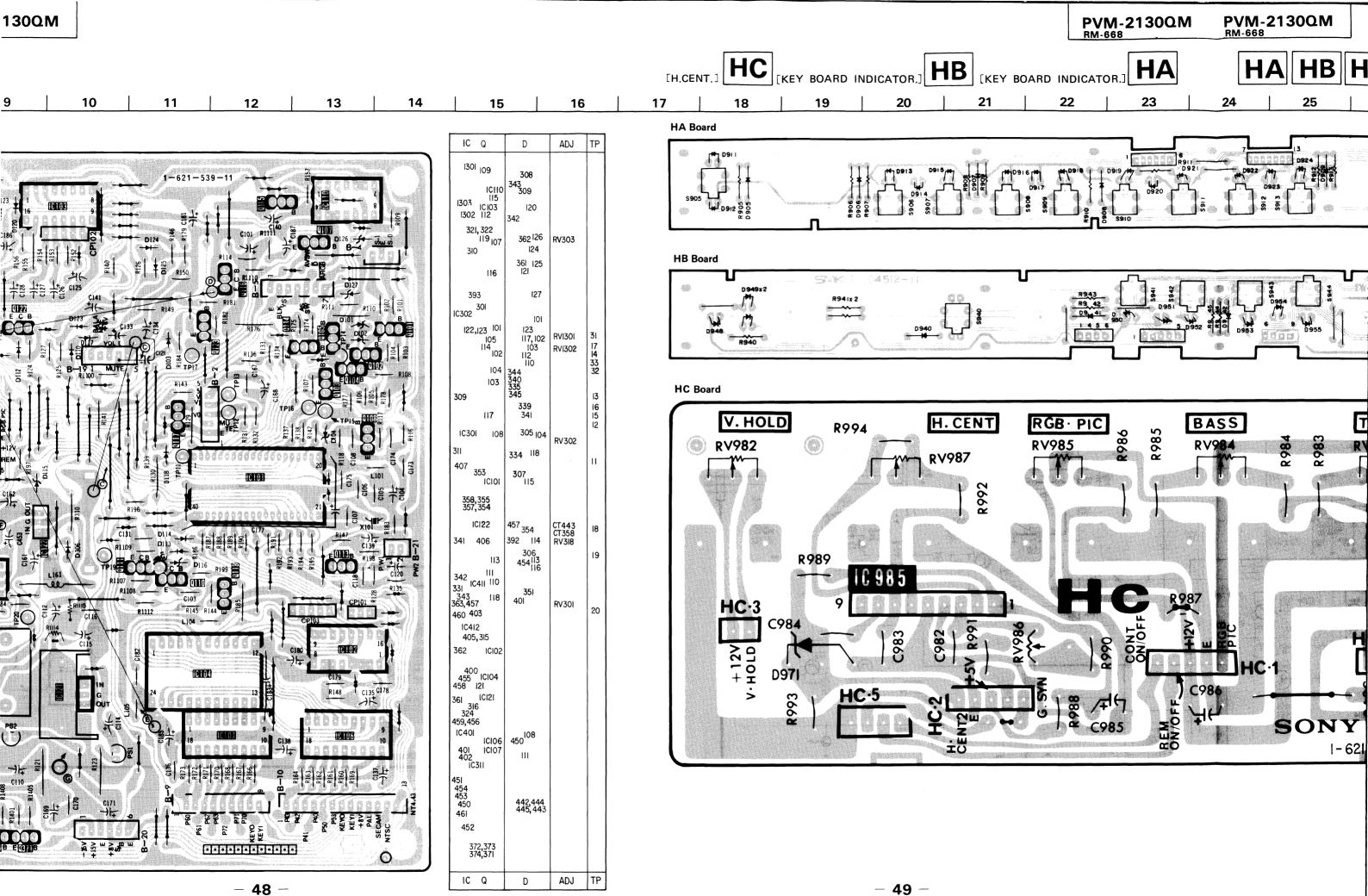
ON SEV. IN DII5 RD5.IE-SB 021 S 335 S 335 S 1021 QIII 2SB734 8V OUT Q 122 2SAI 175 POWER OFF DET DI03 W W RI39 2.2% 8.1V R179 4.7k === 1 C171 R123 DIO3 2 ISSI 19 STOPPER 1.9V 9 V RI46 4.7k 5V BAL DI23-I25 DI I2 ISSI I9 ISSI I9 PROTECT WEK OFF DET ICIOI µPD7508HCU
REMOTE CONTROL DECORER 119V DII2 128k 0122 + CII3 119V DII23 CI41+ 22k ₹ 16V + C161 + 100 R128 27k PD6066BC SIRCS SW #[CI33 #150 #50v#R150 RI35 € OV OH3 2SC2785
POWER ON DET ₹R1115 4.7k DI25 \$RI26-1 DIIO,117,118 ISSI19 STOPPER ICI22 µPC78I2H I2V REG SECAM/PAL/NTSC DETECT.Y/CHROMA
PROCESS AUTO MATIC WHITE BALANCE,
VIDEO DIA CONVERT, REMOTE CONTROL
DECORPTS, LAST MEMORY Q|2| 2\$C2334 8V REG D111 D108 Q118

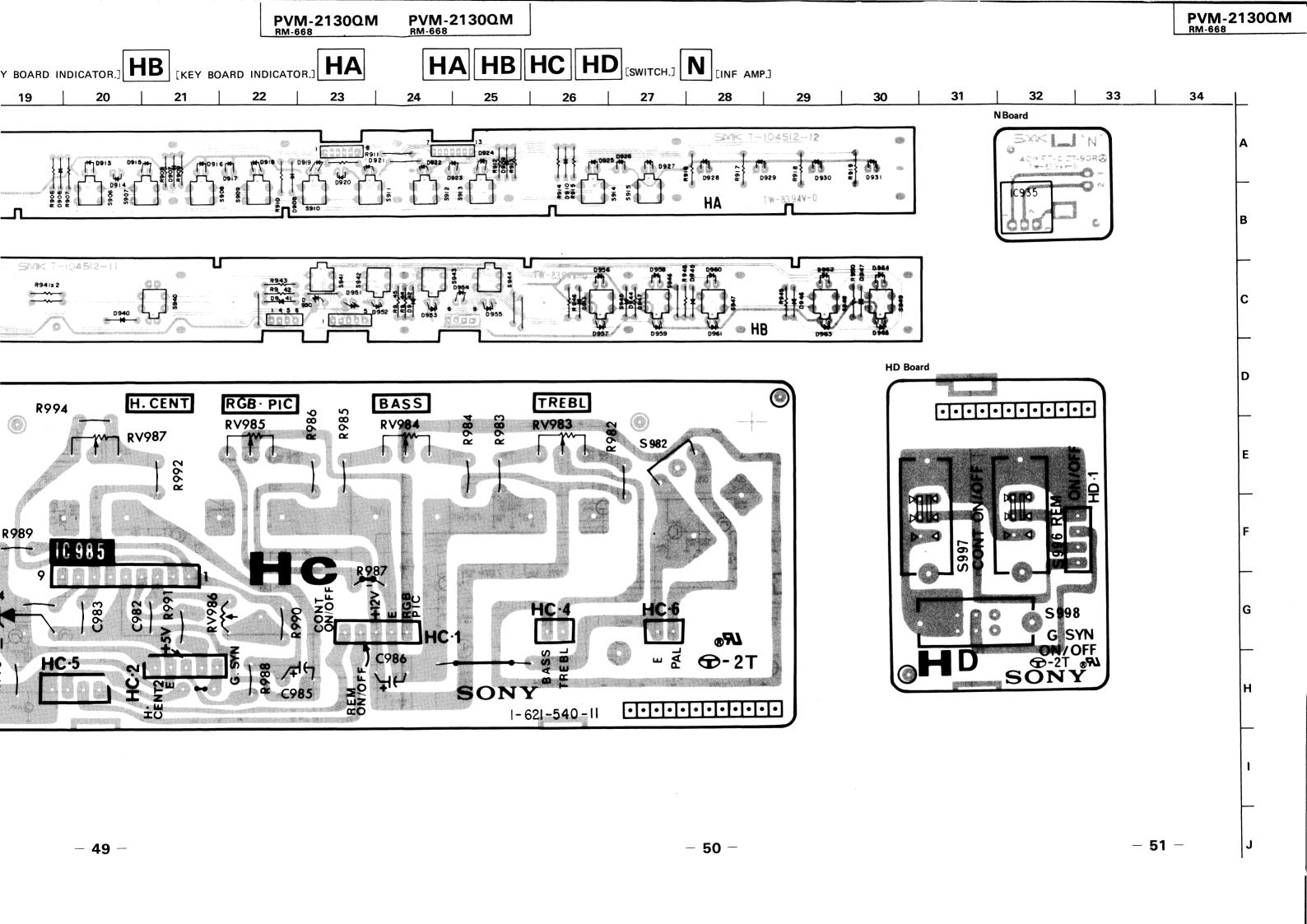
RD8.2E-SB2 ISS119 2SA1175

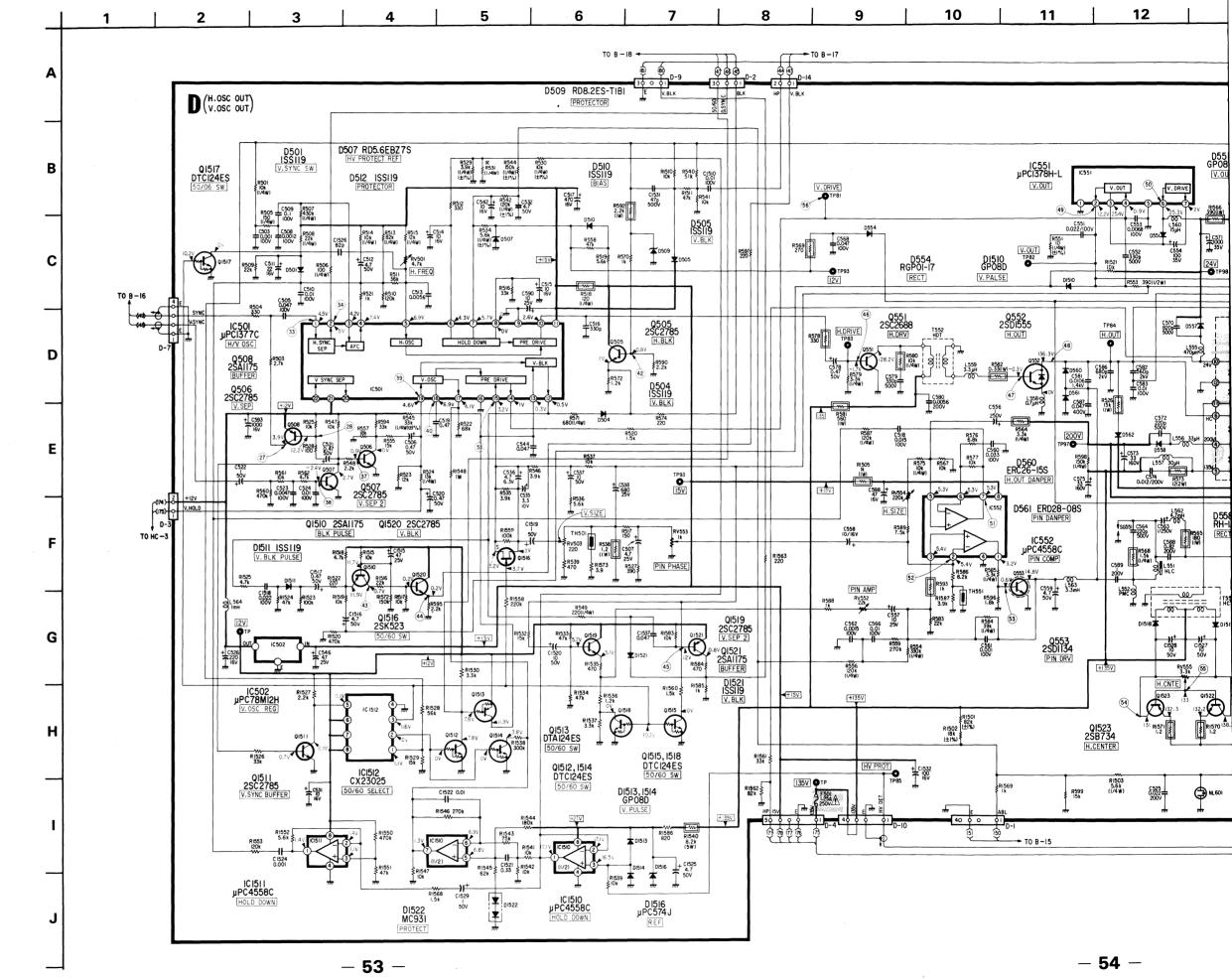
BV REG | STOPPER | CONT ON/OFF SW IC121 µPC7805H 5v REG Q107 DTC124ES RELAY DRIVE

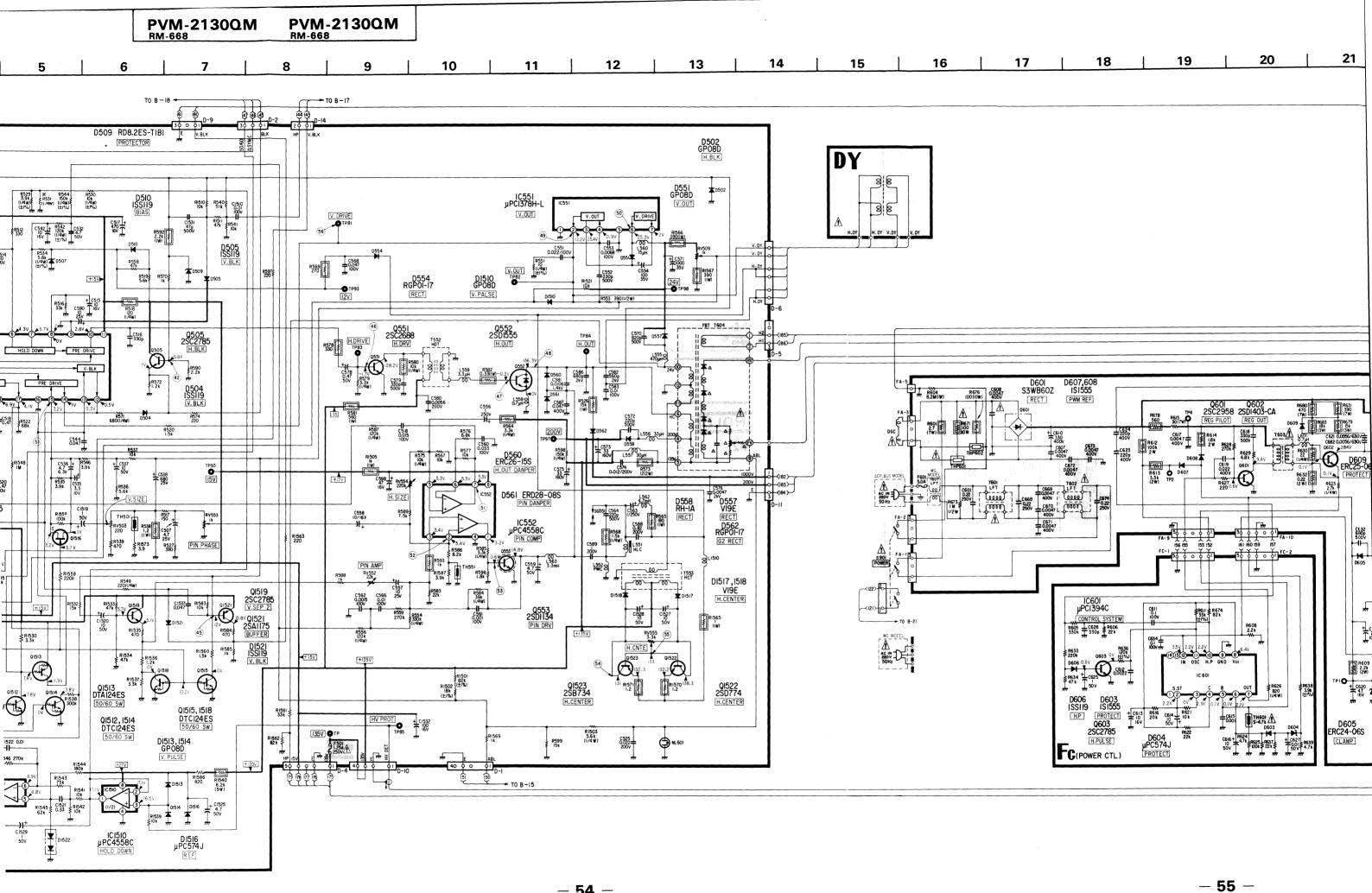


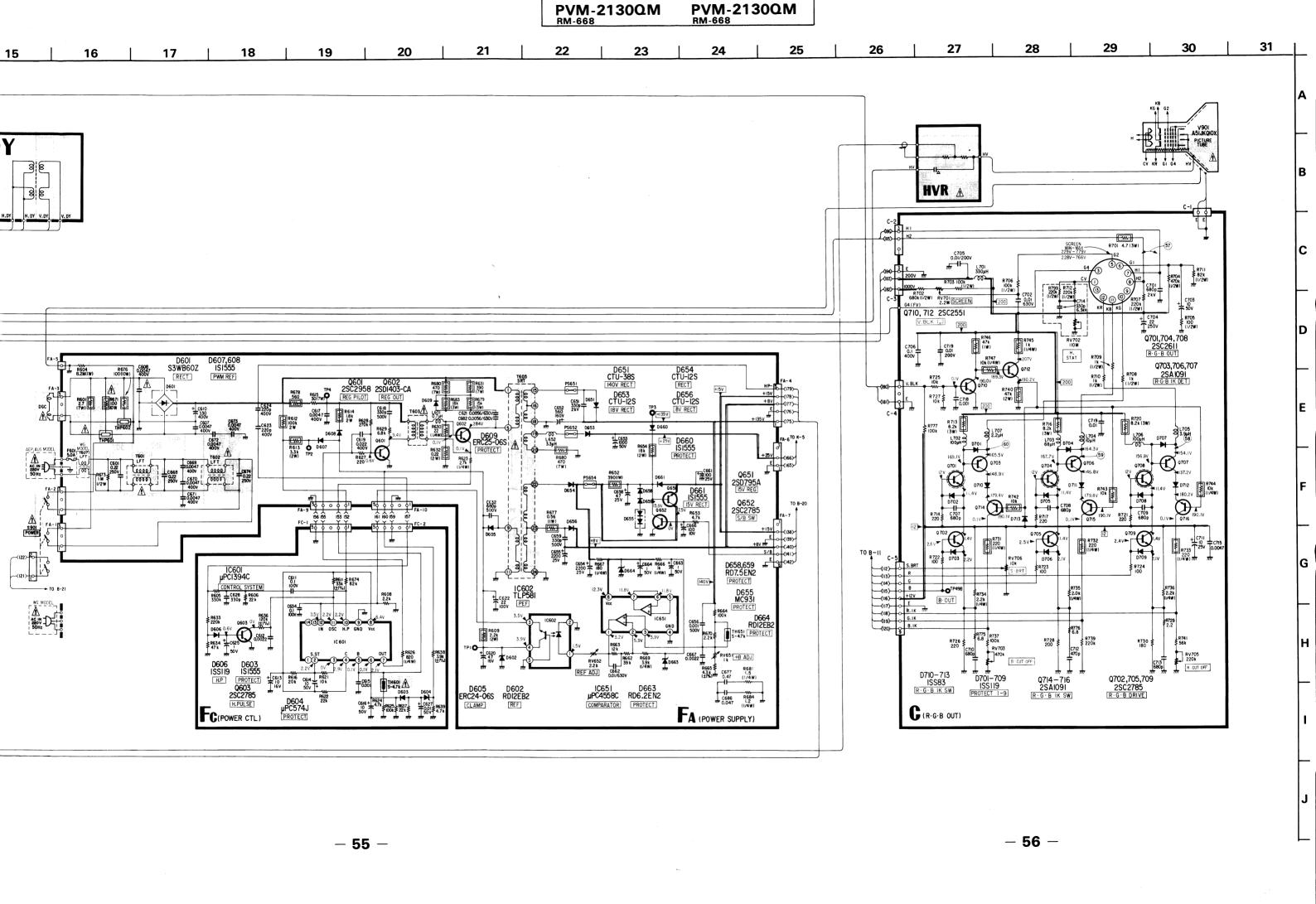
PVM-2130QM RM-668 PVM-2130QM RM-668 SECAM/PAL/NTSC DFTFCT, Y/CHROMA PROCESS AUTOMATIC WHITE BALANCE, VIDEO D/A CONVERT REMOTO CONTROL DECODER, LAST MEMORY, LED DRIVE. В 9 10 11 12 13 14 15 16 **B** Board IC Q ADJ D 1301 109 1-621-539-11 1303 1303 IC 103 1302 112 321**,** 322 119 ₁₀₇ 362 126 RV303 310 36I 125 12I 116 393 1C302 30I 122,123 101 123 117, 102 103 112 110 RVI302 104 103 117 305 ₁₀₄ IC30I RV302 334 118 407 353 ICIOI 358,355 357,354 457 ₃₅₄ ICI22 392 114 341 406 306 454||3 ||6 342 | III 331 | IC411 | IIO 343 363,**4**57 RV301 460 403 IC412 405,315 362 ICI02 400 455 ICI04 458 I2I 361 ICI21 316 324 459,456 IC40I 450¹⁰⁸ ICI06 ICI07 401 402 IC311 452 372**,373** 37**4,3**71 IC Q ADJ D **- 47 -- 48 -**

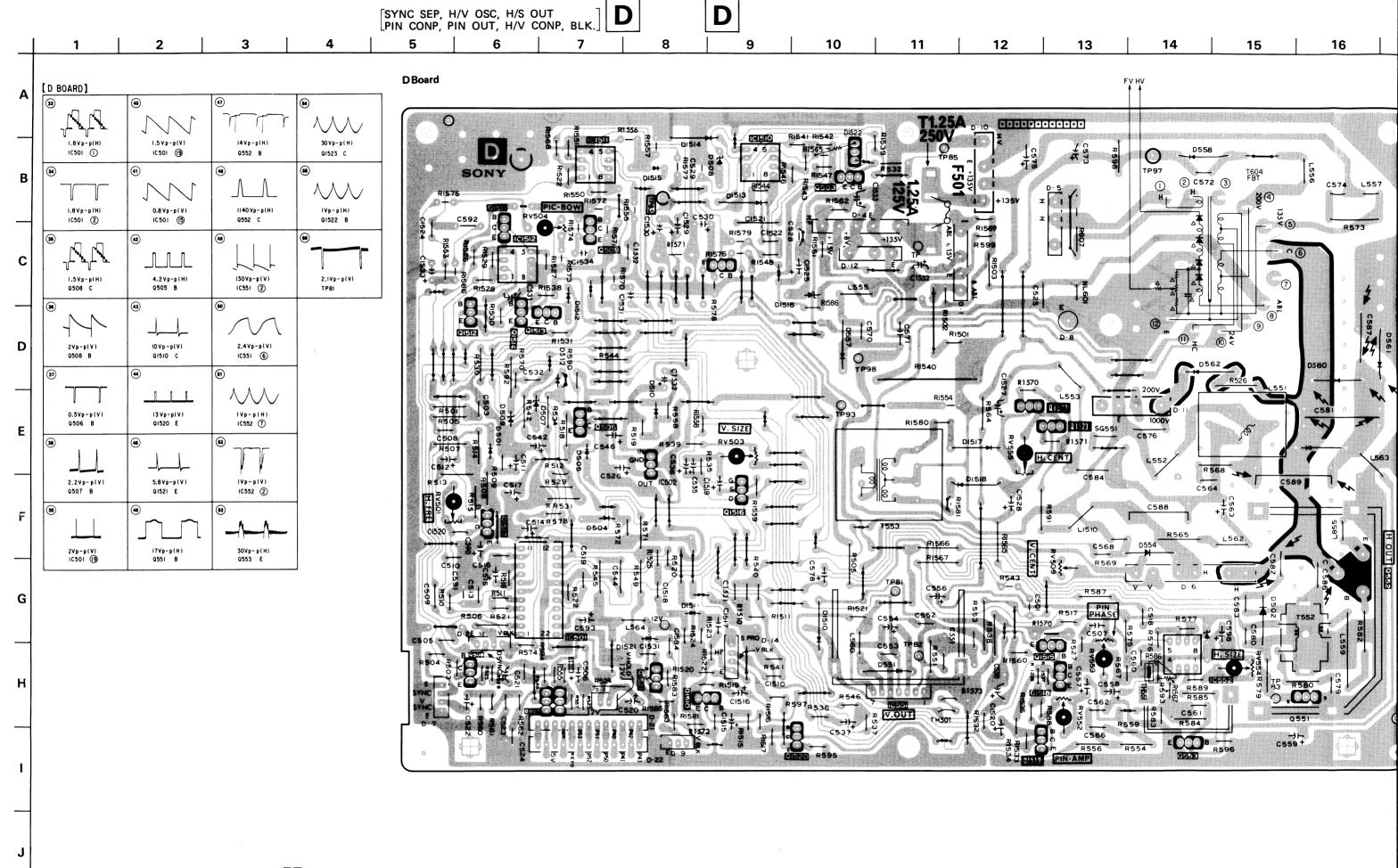






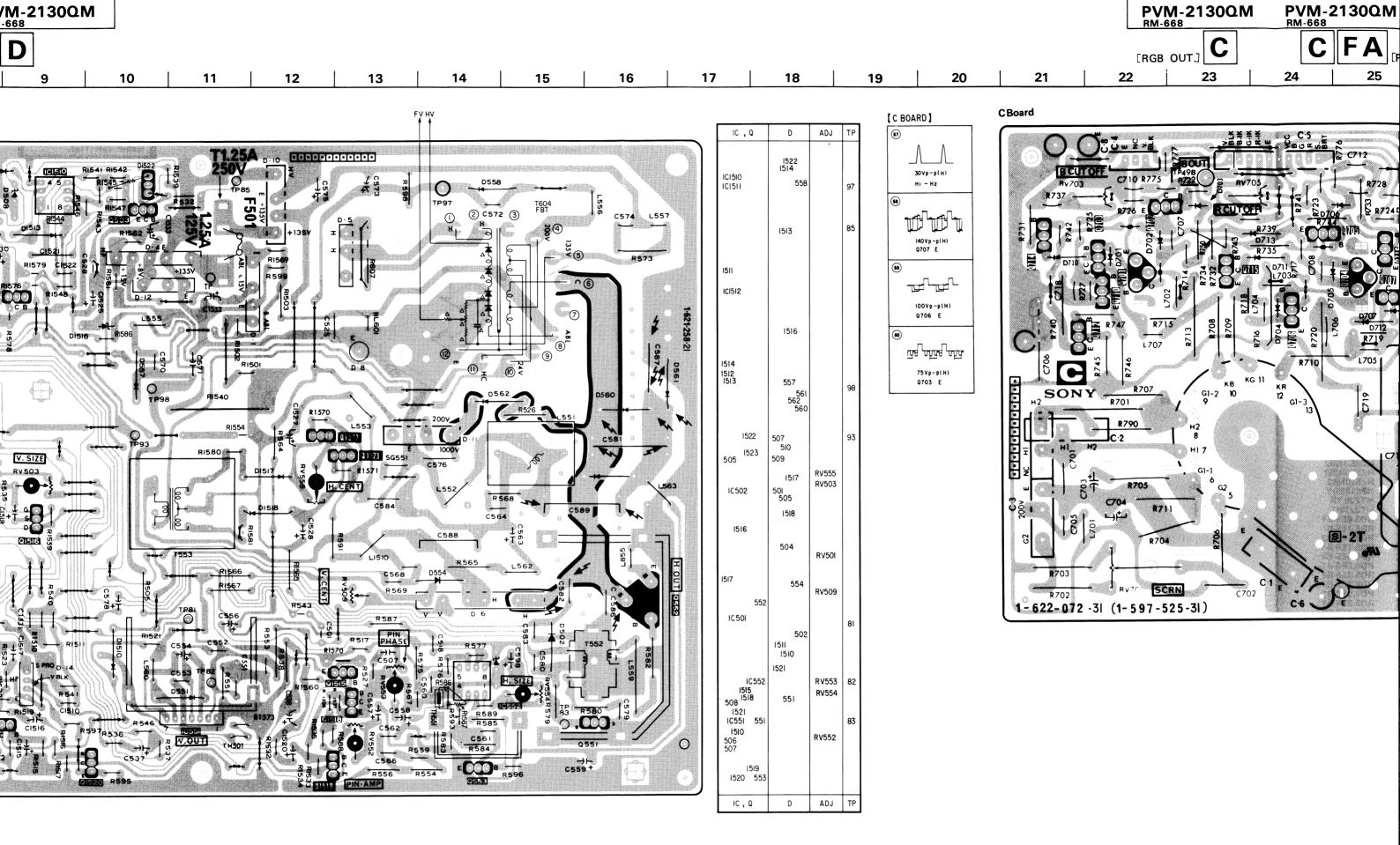


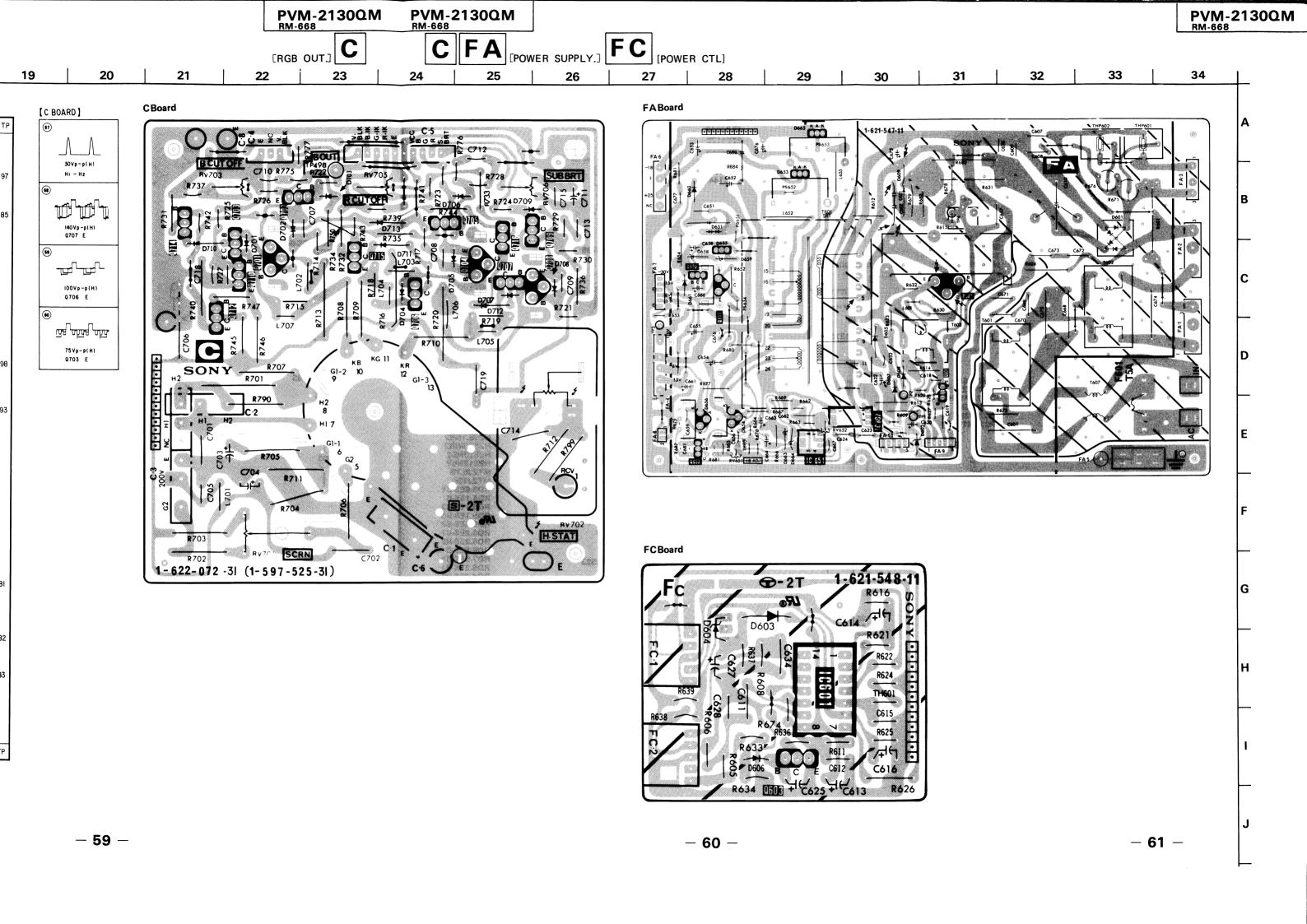




PVM-2130QM RM-668

PVM-2130QM RM-668





BA236 LA7910	MC14073BCP	μ PC574J	2SA1048 2SA1115	2SC2611 2SC2688	IN4148 ISS83_	CTU-12S	S3WB60Z
1 2 3 4 5 6 7 8 9	TOP VIEW)	ande sathode	2SC1740 2SC2458 2SC2603 DTA124ES DTC124ES DTC144ES	letter side	IS1555 10E2 EQA01-06 ERC24-06S ERD28-08 ES1F GP-08D RD5,6E-B2	anode	Marking
CX-175		μ PC1377 C		e c e	RD5,6EBZ7S RD6,2E-B1 RD6,2E-B2	cathode	U
24 13 annananana tuu uuuuuuuuu 1 12 (Top view)	SN74LS09N SN74LS86N TC4073BP μPD1394C μPD4066BC	22 12 13 14 14 15 16 17	. <u>.</u>	2SD795	RD6,2E-L2 RD12E-B2 RD13E-L2 RD27E-B2 RGP01-17	EQB9.1ES-06 ERC25-06 RH-1A	V19E V19G
CX23025 HA17558 NJM4558D μPC358C μPC4558C	μ PD4073BC	Top view)	2SA1175 2SC2785	6 0 8	RGP01-17PKG23 RGP10G-PKG23	Cathode	
8 7 6 5	1 2 3 4 5 6 7 (Top view)	μPC1378H		2SD1403		anade	TLP581
1 2 3 4 (Top view)	NJM7805H NJM7812A NJM78M12H μPC7805H		, ,		ISS119 ISS133	ERC26-15S GH3F U05G V30N	54
CXA1001AP	μPC7812H μPC78M121-1	μPD750HCU-244	2SB734 2SC2958 2SC2959		ISS148 HZS3.6NB1 HZS5.1NB	î	5 4 3 3 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
42.40.335 350. 25 22	IN OUT	40. 35. 30. 25. 21 10. 35. 30. 25. 21 10. 35. 30. 25. 25. 25. 25. 25. 25. 25. 25. 25. 25	2SD773 2SD774	2SD1555	HZS5.1NB2 HZS6.8NB2 HZS10NB2 HZS13NB3 MTZJ5.1B MTZJ13C	∳ †	12
CXA1024\$	GNÓ 001	(Тор view) µ PD8243C	É C B	8 C E	RD3.6ES-B1 RD5.1ES-B RD5.1ES-B2 RD5.1ES-B3 RD5.6ES-B3 RD6.2ES-B1	ERD29-08	
(Top view)	letter side	24 0.000.000.000000000000000000000000000	2SC2334 2SD1134	2SK523	RD6.2ES-B2 RD6.8ES-B RD7.5ES-B2 RD8.2ES-B1 RD8.2ES-B2	cathode	
CXK1005P SN74LS138N TA7630P μPD4052BC μPD6326C	TD62381	(Top view) 2SA933 2SA1091			RD9.1ES-B3 RD10ES-B2 RD13ES-B3	anode	
16 1514131211 10 9		2SB734 2SC2551	B ['] C E	o's G		MC931	
1 2 3 4 5 6 7 8 (Top view)	(Top view)	£ c 8			enode	2 3	

IN4148

ISS83 IS1555 10E2 EQA01-06 ERC24-06S

ERD28-08 ES1F GP-08D RD5.6E-B2

RD5,6EBZ7S

RD6,2E-B1 RD6,2E-B2 RD6,2E-L2 RD12E-B2

RD13E-L2 RD27E-B2 RGP01-17 RGP01-17PKG23 RGP10G-PKG23

ISS119 ISS133 ISS148 HZS3.6NB1 HZS5.1NB HZS5.1NB2 HZS6.8NB2

HZS0.6NB2 HZS10NB2 HZS13NB3 MTZJ5.1B MTZJ13C RD3.6ES-B1

RD3.6ES-B1 RD5.1ES-B2 RD5.1ES-B3 RD5.6ES-B3 RD6.2ES-B1 RD6.2ES-B2 RD6.8ES-B

RD6.8ES-B RD7.5ES-B2 RD8.2ES-B1 RD8.2ES-B2 RD9.1ES-B3

RD10ES-B2 RD13ES-B3

2SC2611 2SC2688



2SD795



2SD1403



2SD1555



2SK523



CTU-12S



EQB9.1ES-06 ERC25-06 RH-1A



ERC26-15S GH3F U05G V30N



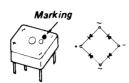
ERD29-08



MC931



S3WB60Z



V19E V19G



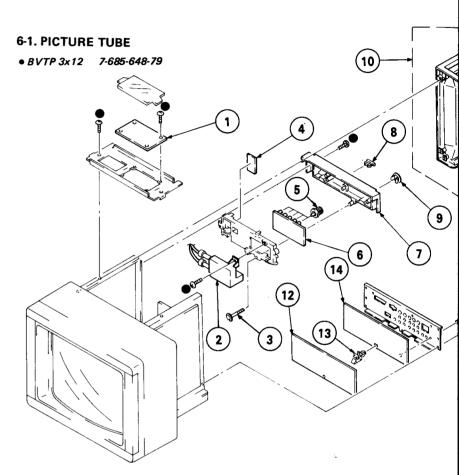
TLP581



SECTION 6 EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked sine they are seldom required for rout service. Some delay should be anticipat when ordering these items.



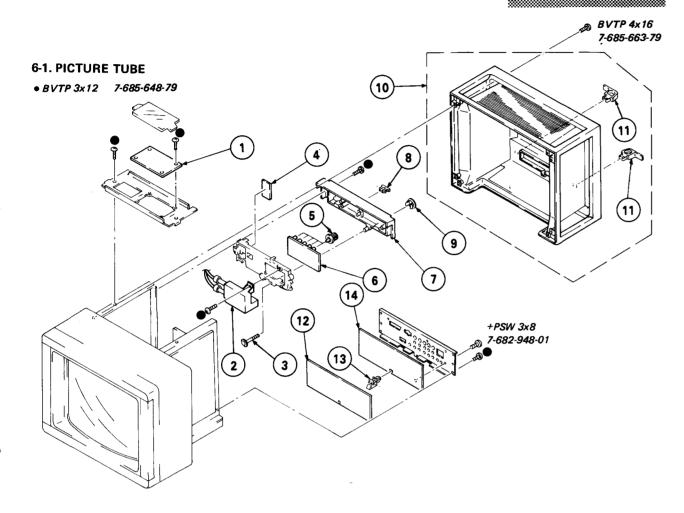
No.	Part No.	Description	Remark	No.	Part No.	<u>[</u>
1 2 3 4 5 6 7	*A-1389-865-A 1-237-614-11 4-319-520-11 *1-621-541-11 4-381-166-01 *A-1375-066-A 4-382-035-21	K BOARD, COMPLETE RESISTOR ASSY, HIGH-YOLTAGE SCREW, SPECIAL (+PW4X30) HD BOARD KNOB (A), CONTROL HC BOARD, COMPLETE PANEL, CONTROL		8 9 10 11 12 13 14	4-371-176-01 4-371-181-01 X-4374-166-3 4-316-003-21 *A-1270-213-A *A-1270-212-A *A-1270-223-A	() () () ()

SECTION 6 EXPLODED VIEWS

- NOTE:
 Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

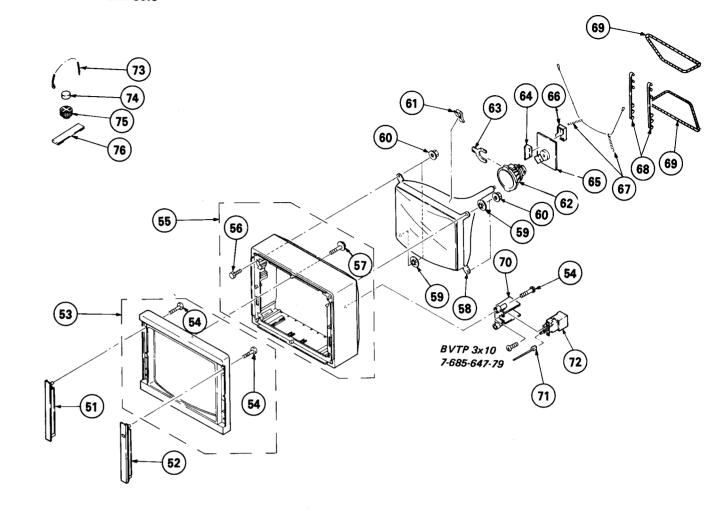
The components identified by shading and mark A are critical for safety.

Replace only with part number specified.



No.	Part No.	<u>Description</u> <u>Remark</u>	No.	Part No.	Description	Remark
1 3 4 5 6 7	A 1-237-614-11 4-319-520-11 *1-621-541-11 4-381-166-01 *A-1375-066-A	K BOARD, COMPLETE RESISTOR ASSY, HIGH-VOLTAGE SCREW, SPECIAL (+PW4X30) HD BOARD KNOB (A), CONTROL HC BOARD, COMPLETE PANEL, CONTROL	8 9 10 11 12 13 14	4-316-003-21 *A-1270-213-A *3-680-721-00 *A-1270-212-A	CAP COVER ASSY, REAR	11

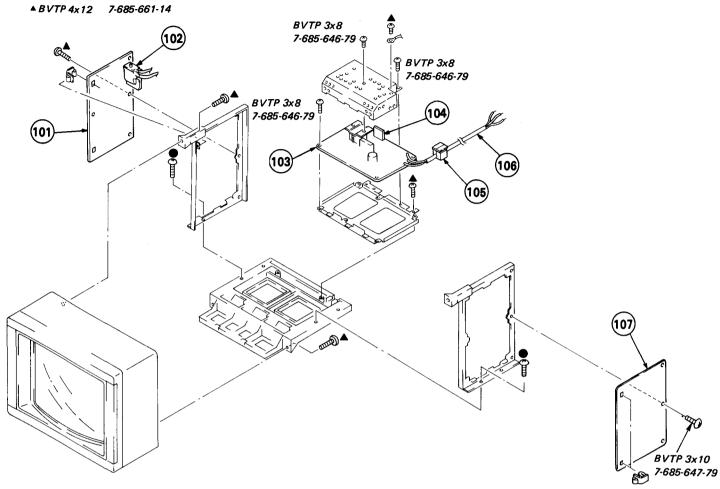
6-2. CHASSIS



						***************************************	••••
No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	1-464-803-11	KEY BOARD UNIT (A)		64	*4-379-167-01	COVER (MAIN), CV	
52	1-464-804-11	KEY BOARD UNIT (B)		65	*A-1330-801-A	C BOARD, COMPLETE	
53	X-4374-194-1		54	j 66	*4-379-160-01	COVER (REAR LID), CV	
54	3-703-083-00			67	4-369-318-00	SPRING, TENSION	
55		CABINET ASSY	56,57	68	*4-369-319-00	BAND, COIL	
56	3-703-025-12		,	69	A.1-426-315-11	COIL, DEMAGNETIZATION	
57		SCREW, SPECIAL (+PW4X30)		70	*4-383-128-01		
58		PICTURE TUBE (A51JKQ10X)		71	*4-371-182-01	SHAFT	
59		WASHER, CRT POSITIONING		72	A.1-554-965-12	SWITCH, PUSH (AC POWER)(1 KEY)	
60		FLANGE NUT, (B) 5MM		73	4-308-870-00	CLIP, LEAD WIRE	
61	3-703-003-00			74	1-452-032-00	MAGNÉT, DISK; 10MM ø	
		DEFLECTION YOKE (SY-153E)	11919	75	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ø	
63	1-452-277-00			j 76	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	

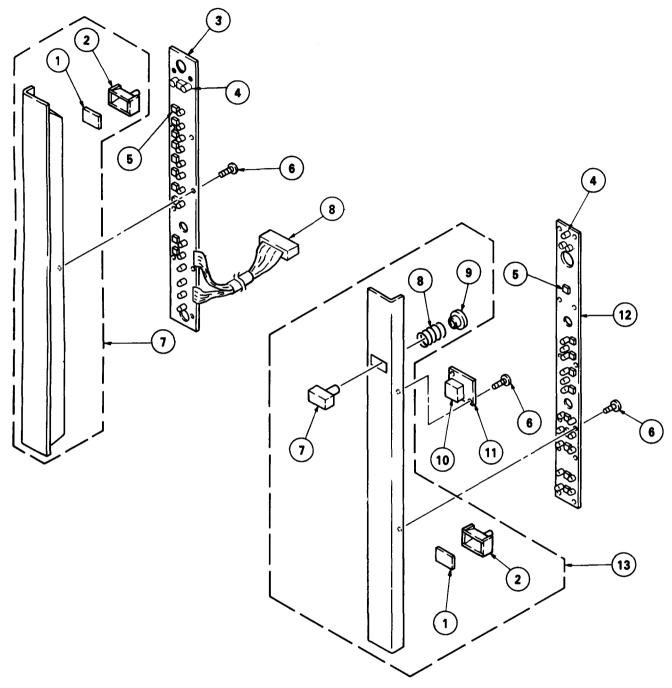
6-3. BACK COVER

• BVTP 3x12 7-685-648-79



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
102	1-439-372-32 ★A-1245-395-A	D BOARD, COMPLETE TRANSFORMER ASSY, FLYBACK FA BOARD, COMPLETE (AEP, AUS ONLY FA BOARD, COMPLETE (WG ONLY) FC BOARD) 104	106	<u>↑</u> .1-534-820-13 <u>↑</u> .1-559-409-11	BUSHING, AC CORD POWER CORD (AEP, AUS ONLY) POWER CORD (WG ONLY) B BOARD, COMPLETE	

6-4. KEY BOARD UNIT



No. Part No. Description Remark No. Part No. Description Remark 1 9-990-892-01 ILLUMINATOR A								
2 9-990-891-01 REFLECTOR A 3 *9-992-308-01 HA BOARD 4 9-990-895-01 SPACER 5 1-553-766-00 MT SWITCH (KEY BOARD SWITCH) 5 1-553-766-00 MT SWITCH (KEY BOARD SWITCH) 6 9-990-894-01 TAPPING SCREW 7 9-992-310-01 FRAME ASSY 1,2 8 9-990-902-01 COIL SPRING 8 9-992-309-01 HARNESS 1 8 9-992-309-01 STOPPER 1 8 9-990-898-01 N BOARD 1 8 9-992-401-01 HB BOARD	No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
	6 7	9-990-891-01 *9-992-308-01 9-990-895-01 1-553-766-00 9-990-894-01 9-992-310-01	REFLECTOR A HA BOARD SPACER MT SWITCH (KEY BOARD SWITCH) TAPPING SCREW FRAME ASSY	1,2	6 7 8 9 10 11	9-990-891-01 9-990-895-01 1-553-766-00 9-990-894-01 9-990-902-01 9-990-900-01 8-741-138-70 *9-990-898-01 *9-992-401-01	REFLECTOR A SPACER MT SWITCH (KEY BOARD SWITCH) TAPPING SCREW KEY TOP COIL SPRING STOPPER DETECTOR (BX1387) N BOARD HB BOARD	1,2,7,8,9

SECTION 7 ELECTRICAL PARTS LIST

В

NOTE:

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS . • MF : אר, PF : אעע RESISTORS

· All resistors are in ohms

• F : nonflammable

COILS

• MMH : mH, UH : بر

When indicating parts by reference number, please include the board name.

		·	ME ; jur, er	- אינוע ע		the board name.					
Ref.No	. Part No.	Description			Remark	Ref.No.	Part No.	Description			Remark
	*A-1135-448-A	B BOARD, COM ************************************	PLETE *****			C138 C139 C140	1-123-307-00 1-123-356-00 1-123-356-00 1-123-330-00	ELECT ELECT ELECT	100MF 10MF 10MF 22MF	20% 20% 20% 20%	10V 16V 16V 16V
n1	+1 566 054 11	DIN CONVECT	on 00			C161	1-123-333-00	ELECT	100MF	20%	25V
B1 B2 B4 B5 B6	*1-566-054-11 *1-566-057-11 *1-566-055-11 *1-566-056-11	PIN, CONNECT PIN, CONNECT PIN, CONNECT PIN, CONNECT PIN, CONNECT	OR 5P OR 3P OR 7P			C162 C167 C168 C169 C170	1-123-321-00 1-101-004-00 1-123-356-00 1-123-356-00 1-101-004-00	CERAMIC ELECT ELECT	220MF 0.01MF 10MF 10MF	20% 20% 20%	16V 50V 16V 25V
B7 B8 B9 B10 B11	*1-566-058-11 *1-566-059-11 *1-566-061-11 *1-566-065-11 *1-566-061-11	PIN, CONNECT PIN, CONNECT PIN, CONNECT PIN, CONNECT PIN, CONNECT	OR 7P OR 9P OR 13P			 C171 C173 C174 C175	1-123-356-00 1-101-004-00 1-101-004-00 1-101-006-00	ELECT CERAMIC CERAMIC CERAMIC	0.01MF 10MF 0.01MF 0.01MF 0.047MF	20%	50V 16V 50V 50V 50V
B13 B14 B15 B16 B17	*1-566-054-11 *1-566-057-11 *1-508-766-00 *1-566-056-11 *1-566-054-11	PIN, CONNECT PIN, CONNECT 4P PLUG (M) PIN, CONNECT PIN, CONNECT	OR 5P OR 4P			C177 C178 C179 C180 C181	1-119-354-00 1-101-004-00 1-101-006-00 1-123-307-00 1-123-332-00	CERAMIC CERAMIC ELECT ELECT	330MF 0.01MF 0.047MF 100MF 47MF	20% 20%	50V 50V 10V 16V
B18 B19 B20 B21	*1-566-055-11 *1-566-057-11 *1-566-058-11 *1-566-054-11	PIN, CONNECT PIN, CONNECT PIN, CONNECT PIN, CONNECT	OR 5P OR 6P			C182 C183 C185 C186 C187	1-123-307-00 1-123-356-00 1-123-330-00	ELECT ELECT ELECT ELECT	0.047MF 100MF 100MF 10MF 22MF	20% 20% 20%	10V 10V 10V 16V 16V
	CAP	ACITOR				C301	1-123-333-00	ELECT	100MF	20%	16V
C101 C103 C104 C105 C106	1-123-356-00 1-102-973-00 1-123-306-00 1-136-161-00 1-102-963-00	CERAMIC ELECT FILM	10MF 100PF 47MF 0.047MF 33PF	20% 5% 20% 5% 5%	16V 50V 10V 50V 50V	C302 C303 C304 C305 C306	1-101-888-00 1-123-369-00 1-123-356-00 1-110-201-00 1-101-006-00	ELECT ELECT MYLAR	68PF 4.7MF 10MF 0.0033MF 0.047MF	5% 20% 20% 5%	50 V 25 V 16 V 50 V 50 V
C107 C108 C110 C112 C113	1-102-963-00 1-102-978-00 1-123-333-00 1-123-335-00 1-123-318-00	ELECT ELECT	33PF 220PF 100MF 330MF 33MF	5% 5% 20% 20% 20%	50 V 50 V 25 V 25 V 16 V	C307 C308 C309 C310 C311	1-101-006-00 1-123-381-00 1-102-946-00 1-123-356-00 1-136-157-00	ELECT CERAMIC ELECT	0.047MF 2.2MF 9PF 10MF 0.022MF	20% 0.5PF 20% 5%	50 V 50 V 50 V 16 V 50 V
C114 C115 C116 C118 C119	1-123-333-00 1-123-333-00 1-101-006-00 1-101-004-00 1-123-330-00	ELECT ELECT CERAMIC CERAMIC ELECT	100MF 100MF 0.047MF 0.01MF 22MF	20% 20% 20%	25V 16V 50V 50V 16V	C312 C313 C314 C315 C316	1-136-157-00 1-102-074-00 1-101-006-00 1-101-006-00 1-136-169-00	CERAMIC CERAMIC CERAMIC	0.022MF 0.001MF 0.047MF 0.047MF 0.22MF	5% 10% 5%	50 V 50 V 50 V 50 V 50 V
C120 C121 C123 C125 C126	1-123-330-00 1-123-356-00 1-101-006-00 1-123-380-00 1-123-380-00	CERAMIC ELECT	22MF 10MF 0.047MF 1MF 1MF	20% 20% 20% 20%	25V 16V 50V 50V 50V	C317 C322 C323 C324 C325	1-102-074-00 1-101-006-00 1-124-464-11 1-124-464-11 1-123-333-00	CERAMIC ELECT ELECT	0.001MF 0.047MF 0.22MF 0.22MF 100MF	10% 20% 20% 20%	50 V 50 V 50 V 50 V 16 V
C127 C128 C131 C133 C134	1-123-380-00 1-123-380-00 1-130-475-00 1-123-380-00 1-123-380-00	ELECT ELECT MYLAR ELECT ELECT	1MF 1MF 0.0022MF 1MF 1MF	20% 20% 5% 20% 20%	50 V 50 V 50 V 50 V 50 V	C326 C327 C330 C331 C332	1-124-464-11 1-102-111-00 1-101-006-00 1-123-380-00 1-136-161-00	ELECT CERAMIC CERAMIC ELECT FILM	0.22MF 270PF 0.047MF 1MF 0.047MF	20% 10% 20% 5%	50 V 50 V 50 V 50 V 50 V
C135 C136 C137	1-123-381-00 1-101-006-00 1-123-307-00	ELECT CERAMIC ELECT	2.2MF 0.047MF 100MF	20% 20%	50V 50V 10V	C333 C334 C335	1-102-959-00 1-123-380-00 1-123-307-00	CERAMIC ELECT ELECT	22PF 1MF 100MF	5% 20% 20%	50 V 50 V 10 V



Ref.No.	Part No.	Description			Remark	<u>Ref.No.</u>	Part No.	Description			Remark
C336 C337 C341 C346 C347	1-123-318-00 1-102-112-00 1-123-380-00 1-123-380-00 1-102-111-00	ELECT CERAMIC ELECT ELECT CERAMIC	33MF 330PF 1MF 1MF 270PF	20% 10% 20% 20% 10%	16V 50V 50V 50V 50V	C1304 C1305 C1306	1-124-656-00 1-123-356-00 1-136-161-00 1-123-380-00 1-123-356-00	ELECT ELECT FILM ELECT ELECT	2.2MF 10MF 0.047MF 1MF 10MF	20% 20% 5% 20% 20%	50V 16V 50V 50V 25V
C350 C351 C352 C353 C354	1-123-356-00 1-102-074-00 1-101-361-00 1-102-959-00 1-123-380-00	ELECT CERAMIC CERAMIC CERAMIC ELECT	10MF 0.001MF 150PF 22PF 1MF	20% 10% 5% 5% 20%	16V 50V 50V 50V 50V	C1319	1-123-380-00 1-123-380-00 1-123-380-00 1-123-382-00 1-123-356-00	ELECT ELECT ELECT ELECT ELECT	1MF 1MF 1MF 3.3MF 10MF	20% 20% 20% 20% 20%	50V 50V 50V 50V 25V
C355 C381 C382 C402 C404	1-101-005-00 1-102-074-00 1-123-332-00 1-136-167-00 1-136-165-00	CERAMIC CERAMIC ELECT FILM FILM	0.022MF 0.001MF 47MF 0.15MF 0.1MF	10% 20% 5% 5%	50V 50V 16V 50V	C1322 C1323 C1324 C1325 C1326	1-101-004-00 1-123-356-00 1-123-332-00 1-101-006-00 1-101-006-00	CERAMIC ELECT ELECT CERAMIC CERAMIC	0.01MF 10MF 47MF 0.047MF 0.047MF	20% 20%	50V 25V 16V 50V 50V
C405 C406 C408 C410 C411	1-102-806-00 1-101-890-00 1-123-356-00 1-123-356-00 1-136-161-00	CERAMIC CERAMIC ELECT ELECT FILM	27PF 75PF 10MF 10MF 0.047MF	5% 5% 20% 20% 5%	50 V 50 V 16 V 50 V 50 V	C1336	1-123-318-00 1-136-153-00 1-101-004-00 1-110-203-00 1-136-161-00	ELECT FILM CERAMIC MYLAR FILM	33MF 0.01MF 0.01MF 0.0047MF 0.047MF	20% 5% 5% 5%	16V 50V 50V 50V
C412 C413 C414 C415 C416	1-102-119-00 1-123-380-00 1-136-173-00 1-101-005-00 1-123-356-00	CERAMIC ELECT FILM CERAMIC ELECT	0.0015MF 1MF 0.47MF 0.022MF 10MF	10% 20% 5% 20%	50 V 50 V 50 V 50 V 16 V	C1343 C1344	1-136-153-00 1-110-203-00 1-136-161-00 1-136-153-00 1-110-203-00	FILM MYLAR FILM FILM MYLAR	0.01MF 0.0047MF 0.047MF 0.01MF 0.0047MF	5% 5% 5% 5%	50 V 50 V 50 V 50 V 50 V
C417 C418 C419 C420 C421	1-123-356-00 1-136-161-00 1-123-380-00 1-101-890-00 1-102-806-00	ELECT FILM ELECT CERAMIC CERAMIC	10MF 0.047MF 1MF 75PF 27PF	20% 5% 20% 5% 5%	16V 50V 50V 50V 50V	C1352 C1353 C1354	1-123-356-00 1-123-332-00 1-102-973-00 1-136-157-00 1-123-380-00	ELECT ELECT CERAMIC FILM ELECT	10MF 47MF 100PF 0.022MF 1MF	20% 20% 5% 5% 20%	25V 16V 50V 50V
C423 C424 C425 C426 C427	1-136-165-00 1-123-356-00 1-102-888-00 1-101-004-00 1-101-006-00	FILM ELECT CERAMIC CERAMIC CERAMIC	0.1MF 10MF 150PF 0.01MF 0.047MF	5% 20% 5%	50V 16V 50V 50V 50V	C1358 C1359	1-136-165-00 1-123-380-00 1-123-369-00 1-102-820-00 1-102-820-00	FILM ELECT ELECT CERAMIC CERAMIC	0.1MF 1MF 4.7MF 330PF 330PF	5% 20% 20% 5% 5%	50 V 50 V 50 V 50 V 50 V
C428 C429 C430 C434 C452	1-102-121-00 1-136-161-00 1-102-971-00 1-102-112-00 1-136-169-00	CERAMIC FILM CERAMIC CERAMIC FILM	0.0022MF 0.047MF 82PF 330PF 0.22MF	10% 5% 5% 10% 5%	50V 50V 50V 50V	C1361 C1362 C1390 C1391 C1392	1-102-129-00 1-130-475-00 1-101-004-00 1-123-356-00 1-123-356-00	CERAMIC MYLAR CERAMIC ELECT ELECT	0.01MF 0.0022MF 0.01MF 10MF 10MF	10% 5% 20% 20%	50 V 50 V 50 V 16 V 16 V
C453 C454 C466 C470 C472	1-123-333-00 1-102-963-00 1-102-115-00 1-123-333-00 1-123-356-00	ELECT CERAMIC CERAMIC ELECT ELECT	100MF 33PF 560PF 100MF 10MF	20% 5% 10% 20% 20%	16V 50V 50V 16V 16V	i CT358	1-141-181-11	CERAMIC <u>MMER</u> CAP, TRIMMER	0.01MF		50V
C473 C474 C475 C476 C477	1-101-361-00 1-102-662-00 1-102-662-00 1-102-662-00 1-102-662-00	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	150PF 7PF 7PF 7PF 7PF	5% 0.5PF 0.5PF 0.5PF 0.5PF	50 V 50 V 50 V 50 V 50 V	CT443 D101 D102	1-141-181-11 <u>DIO</u> 8-719-109-97 8-719-109-97	CAP, TRIMMER DE DIODE RD6.8E DIODE RD6.8E	S-B2 S-B2		
C481 C482 C484 C1301	1-108-614-91 1-102-820-00 1-136-165-00 1-101-004-00	CERAMIC FILM	0.001MF 330PF 0.1MF 0.01MF	10% 5%	100V 50V 50V 50V	D103 D104 D108 	8-719-911-19 8-719-109-68 8-719-911-19	DIODE 1SS119 DIODE RD3.6E DIODE 1SS119	S-B1		



Ref.No. Part No.	Description Remar	Ref.No	. Part No.	Description	Remark
D110 8-719-911-19 D111 8-719-110-08 D112 8-719-911-19 D113 8-719-911-19 D114 8-719-911-19	DIODE 1SS119 DIODE RD8.2ES-B2 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	IC107 IC110	8-759-207-07 8-759-207-07 8-759-140-66 8-759-171-05 *4-363-146-00	IC TD62381P IC UPD4066BC IC UPC7805H	
D115 8-719-109-83 D116 8-719-109-90 D117 8-719-911-19 D118 8-719-911-19 D120 8-719-911-19	DIODE RD5.1ES-B DIODE RD5.6ES-B3 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	 IC301 IC302	8-759-700-06 *4-323-833-00 8-752-030-86 8-752-030-31 8-759-240-73	HEAT SINK, PIN OUT; IC122 IC CXA1001AP IC CXA1024S	
D121 8-719-911-19 D123 8-719-911-19 D124 8-719-911-19 D125 8-719-911-19 D126 8-719-109-95	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE RD6.8ES-B	IC411	8-751-750-00 8-759-135-80 8-759-140-66	IC UPC358C IC UPD4066BC	
D127 8-719-109-95	DIODE RD6.8ES-B	 L101	*****	MICRO INDUCTOR 180UH	
D305 8-719-911-19 D306 8-719-911-19 D307 8-719-911-19 D308 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	L104 L105 L161 L333	1-408-424-00 1-408-424-00 1-407-364-00	MICRO INDUCTOR 180UH MICRO INDUCTOR 180UH	
D309 8-719-911-19 D334 8-719-110-15 D335 8-719-911-19 D339 8-719-911-19 D340 8-719-911-19	DIODE 1SS119 DIODE RD10ES-B DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	L337 L405 L406 L420 L421	1-408-160-00 1-404-496-00 1-408-411-00 1-408-411-00 1-404-496-00	COIL MICRO INDUCTOR 15UH MICRO INDUCTOR 15UH	
D341 8-719-911-19 D342 8-719-110-15 D343 8-719-110-15 D344 8-719-110-15 D345 8-719-911-19	DIODE 1SS119 DIODE RD10ES-B DIODE RD10ES-B DIODE RD10ES-B DIODE RD10ES-B DIODE 1SS119	L430 L431 L432 L435 L451	1-408-414-00	MICRO INDUCTOR 22MMH MICRO INDUCTOR 27UH MICRO INDUCTOR 33UH MICRO INDUCTOR 8.2UH COIL	
D351 8-719-911-19 D354 8-719-911-19 D361 8-719-911-19 D362 8-719-911-19 D392 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	L452 L455		COIL MICRO INDUCTOR 5.6MMH LINK	
D401 8-719-911-19	DIODE 1SS119	PS1 PS2	1-532-605-00	LINK, IC	
D442 8-719-911-19	DIODE 1SS119	122	1-532-637-00		
D443 8-719-911-19 D444 8-719-911-19	DIODE 1SS119 DIODE 1SS119			NSISTOR	
D445 8-719-911-19 D450 8-719-911-19 D454 8-719-911-19 D457 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	Q101 Q102 Q103 Q104 Q105	8-729-117-54 8-729-117-54 8-729-178-54 8-729-178-54 8-729-178-54	TRANSISTOR 2SA1175 TRANSISTOR 2SA1175 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785	
DEL	AY LINE	0107		TRANSISTOR DTC124ES	
DL401 1-415-380-11	DELAY LINE, 1H (PAL) DELAY LINE, Y	Q108 Q109 Q110 Q111	8-729-178-54 8-729-117-54 8-729-117-54 8-729-103-43	TRANSISTOR 2SC2785 TRANSISTOR 2SA1175 TRANSISTOR 2SA1175 TRANSISTOR 2SB734	
<u>1C</u>		Q112	8-729-178-54	TRANSISTOR 2SC2785	
IC101 8-759-113-02 IC102 8-752-321-18 IC103 8-759-102-28 IC104 8-759-182-43	IC UPD7508HCU-244 IC CXK1005P IC UPD6326C IC UPD8243C	Q113 Q114 Q115 Q116	8-729-178-54 8-729-178-54 8-729-900-36 8-729-117-54	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR DTC124ES	



Ref.No. Part No.	Description	Remark	Ref.No.	Part No.	Description				Remark
Q117 8-729-178-54 Q118 8-729-117-54	TRANSISTOR 2SA1175		Q1302 Q1303	8-729-178-54 8-729-117-54	TRANSISTOR 2	SC2785 SA1175			
Q119 8-729-117-54 Q121 8-729-133-42 *4-363-146-00	TRANSISTOR 2SC2334-L			RES	ISTOR				
Q122 8-729-117-54 Q123 8-729-178-54			R101 R102 R103	1-249-395-11 1-249-395-11 1-249-441-11	CARBON CARBON CARBON	15 15 100K	5% 5% 5%	1/6W 1/6W 1/6W	
Q301 8-729-117-54 Q309 8-729-178-54 Q310 8-729-117-54	TRANSISTOR 2SA1175 TRANSISTOR 2SC2785		R104 R105	1-249-441-11 1-247-805-00	CARBON	100K 82		1/6W 1/6W	
Q311 8-729-177-43 Q315 8-729-178-54	TRANSISTOR 2SD774		R106 R107 R108	1-249-413-11 1-249-411-11 1-249-441-11	CARBON CARBON CARBON	470 330 100K	5% 5% 5%	1/6W 1/6W 1/6W	
Q316 8-729-178-54 Q321 8-729-178-54 Q322 8-729-178-54	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		R109 R110	1-249-433-11 1-249-465-11	CARBON	22K 47K	5% 5%	1/6W 1/4W	
Q324 8-729-178-54	TRANSISTOR 2SC2785		R111	1-249-437-11 1-249-437-11	CARBON CARBON	47K 47K	5% 5%	1/6W 1/6W	
Q331 8-729-178-54 Q341 8-729-178-54 Q342 8-729-178-54	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		R116 R117 R118	1-249-414-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON	560 10K 10K	5% 5% 5%	1/6W 1/6W 1/6W	
Q343 8-729-178-54 Q353 8-729-178-54	TRANSISTOR 2SC2785		R119 R121	1-249-429-11 1-215-867-00	CARBON METAL OXIDE	10K 470	5% 5%	1/6W 1W	F
Q354 8-729-900-36 Q355 8-729-178-54 Q357 8-729-117-54	TRANSISTOR 2SC2785 TRANSISTOR 2SA1175		R122 R123 R124	1-249-417-11 1-216-357-00 1-249-433-11	CARBON METAL OXIDE CARBON	1K 4.7 22K	5% 5% 5%	1/6W 1W 1/6W	F
Q358 8-729-900-36 Q361 8-729-117-54			 R125 R126	1-249-435-11 1-249-431-11	CARBON CARBON	33K 15K	5% 5%	1/6W 1/6W	
Q362 8-729-117-54 Q363 8-729-117-54 Q371 8-729-178-54	TRANSISTOR 2SA1175 TRANSISTOR 2SA1175		R127 R128 R129	1-249-417-11 1-249-434-11 1-247-717-11	CARBON CARBON CARBON	1K 27K 2.2K	5% 5% 5%	1/6W 1/6W 1/4W	
Q372 8-729-178-54	TRANSISTOR 2SC2785		 R130	1-247-706-11	CARBON	330	5%	1/4W	
Q373 8-729-178-54 Q374 8-729-178-54 Q393 8-729-117-54	TRANSISTOR 2SC2785		R131 R132 R133	1-249-409-11 1-249-409-11 1-249-421-11	CARBON CARBON CARBON	220 220 2.2K	5% 5% 5%	1/6W 1/6W 1/6W	
Q400 8-729-178-54 Q401 8-729-178-54			R134 R135	1-249-421-11 1-249-437-11	CARBON CARBON	2.2K 47K	5% 5%	1/6W 1/6W	
Q402 8-729-178-54 Q403 8-729-117-54 Q405 8-729-178-54	TRANSISTOR 2SA1175		R136 R137 R138	1-249-417-11 1-249-421-11 1-249-421-11	CARBON CARBON CARBON	1K 2.2K 2.2K	5% 5% 5%	1/6W 1/6W 1/6W	
Q406 8-729-117-54 Q407 8-729-178-54	TRANSISTOR 2SA1175		R139 R140	1-249-421-11	CARBON	2.2K 2.2K	5%	1/6W 1/6W	
Q450 8-729-117-54 Q451 8-729-178-54 Q452 8-729-178-54	TRANSISTOR 2SC2785		R141 R142 R143	1-247-717-11 1-249-421-11 1-249-429-11	CARBON CARBON CARBON	2.2K 2.2K 10K	5%	1/4W 1/6W 1/6W	
Q453 8-729-117-54	TRANSISTOR 2SA1175 TRANSISTOR 2SA1175		R144 R144 R145	1-249-429-11		10K	5%	1/6W	
Q455 8-729-178-54 Q456 8-729-117-54 Q457 8-729-178-54	TRANSISTOR 2SA1175		R146	1-249-425-11 1-249-441-11	CARBON CARBON	47K 4.7K 100K	5%	1/6W 1/6W 1/6W	
Q457 8-729-178-54 Q458 8-729-117-54 Q459 8-729-117-54	TRANSISTOR 2SA1175		R148 R149 	1-249-434-11 1-249-427-11	CARBON CARBON	27K 6.8K	5% 5%	1/6W 1/6W	
Q460 8-729-178-54 Q461 8-729-178-54	TRANSISTOR 2SC2785		R150 R151 R152	1-249-427-11 1-249-423-11 1-249-421-11	CARBON CARBON CARBON	6.8K 3.3K 2.2K	5%	1/6W 1/6W 1/6W	
Q1301 8-729-178-54	TRANSISTOR 2SC2785		R153	1-249-421-11	CARBON	2.2K	5%	1/6W	



Ref.No.	Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark
R154	1-249-421-11	CARBON	2.2K	5%	1/6W		R313	1-249-421-11	CARBON	2.2K	5%	1/6W	
R155	1-247-717-11	CARBON	2.2K	5%	1/4W		R314	1-249-409-11	CARBON	220	5%	1/6W	
R156	1-249-423-11	CARBON	3.3K	5%	1/6W		R315	1-249-433-11	CARBON	22K	5%	1/6W	
R157	1-249-433-11	CARBON	22K	5%	1/6W		R316	1-249-435-11	CARBON	33K	5%	1/6W	
R158	1-249-417-11	CARBON	1K	5%	1/6W		R317	1-249-421-11	CARBON	2.2K	5%	1/6W	
	1 217 117 11	Ormbon		٠,٠	-,		1 1027	1-243 421-11	CARDON	2.21	J/6	1/04	
R159	1-249-418-11	CARBON	1.2K	5%	1/6W		R318	1-249-409-11	CARBON	220	5%	1/6W	
R160	1-249-397-11	CARBON	22	5%	1/6W		R319	1-249-433-11	CARBON	22K	5%	1/6W	
R161	1-249-397-11	CARBON	22	5%	1/6W		R320	1-249-435-11	CARBON	33K	5%	1/6W	
R162	1-249-397-11	CARBON	22	5%	1/6W		R321	1-249-435-11	CARBON	33K	5%	1/6W	
R163	1-249-397-11	CARBON	22	5%	1/6W		j R322	1-249-429-11	CARBON	10K	5%	1/6W	
R164	1-249-397-11	CARBON	22	5%	1/6W		R323	1-249-441-11	CARBON	100K	5%	1/6W	
R165	1-247-692-11	CARBON	22	5%	1/4W		R324	1-249-441-11	CARBON	100K	5%	1/6W	
R166	1-249-397-11	CARBON	22	5%	1/6W		R326	1-249-441-11	CARBON	100K	5%	1/6W	
R167	1-249-397-11	CARBON	22	5%	1/6W		R327	1-249-423-11	CARBON	3.3K	5%	1/6W	
R168	1-249-397-11	CARBON	22	5%	1/6W		R328	1-249-423-11	CARBON	3.3K	5%	1/6W	
R169	1 240 207 11	CARRON	22	E e/	1 /611		0200	1 040 400 11	040004	2 24	F.~/	1	
R170	1-249-397-11	CARBON	22	5% = ~	1/6W		R329	1-249-423-11	CARBON	3.3K	5%	1/6W	
R170	1-249-397-11 1-249-397-11	CARBON	22 22	5% 5%	1/6W		R330	1-249-417-11	CARBON	1K	5%	1/6W	
R172	1-249-397-11	CARBON	22		1/6W 1/6W		R331 R332	1-215-493-00	CARBON	1M	5% 5%	1/6W	
R173	1-249-397-11	CARBON CARBON	22	5% 5%	1/6W		R333	1-215-479-00 1-249-414-11	CARBON	270K	5%	1/6W	
(1/3	1-243-33/-11	CARDUN	22	3,6	1/04		l Kooo	1-243-414-11	CARBON	560	5%	1/6W	
R174	1-249-429-11	CARBON	10K	5%	1/6W		R334	1-247-883-00	CARBON	150K	5%	1/6W	
R175	1-249-429-11	CARBON	10K	5%	1/6W		R335	1-249-413-11	CARBON	470	5%	1/6W	
R176	1-247-725-11	CARBON	10K	5%	1/4W		R336	1-249-409-11	CARBON	220	5%	1/6W	
R177	1-249-433-11	CARBON	22K	5%	1/6W		R337	1-249-427-11	CARBON	6.8K	5%	1/6W	
R178	1-249-433-11	CARBON	22K	5%	1/6W		R338	1-249-421-11	CARBON	2.2K	5%	1/6W	
					·		i				-,-	-,	
R179	1-249-425-11	CARBON	4.7K	5 %	1/6W		R339	1-249-417-11	CARBON	1K	5%	1/6W	
R181	1-249-435-11	CARBON	33K	5%	1/6W		R340	1-249-421-11	CARBON	2.2K	5%	1/6W	
R182	1-247-849-00	CARBON	5.6K	5 %	1/6W		R341	1-249-422-11	CARBON	2.7K	5%	1/6W	
R183	1-249-433-11	CARBON	22K	5%	1/6W		R342	1-249-428-11	CARBON	8.2K	5%	1/6W	
R184	1-249-435-11	CARBON	33K	5%	1/6W		R343	1-249-433-11	CARBON	22K	5%	1/6W	
0100	1 047 712 11	0.0000	1.,	-~	1 /41/		0245	1 040 420 11				1	
R185 R186	1-247-713-11	CARBON	1K	5%	1/4W		R345	1-249-439-11	CARBON	68K	5% 5~	1/6W	
R187	1-249-417-11 1-249-417-11	CARBON	1K	5%	1/6W		R346	1-247-849-00	CARBON	5.6K	5% 5~	1/6W	
R188	1-249-417-11	CARBON	1K 1K	5% 5%	1/6W 1/6W		R350 R351	1-249-413-11 1-249-405-11	CARBON	470	5% 5%	1/6W	
R189	1-249-417-11	CARBON CARBON	1K	5%	1/6W		R351	1-249-403-11	CARBON CARBON	100 22K	5%	1/6W	
KIOJ	1-249-41/-11	CARDON	IK	3,6	1/ UN		K332	1-249-433-11	CARDUN	22K	5%	1/6W	
R190	1-249-417-11	CARBON	1K	5%	1/6W		R353	1-249-420-11	CARBON	1.8K	5%	1/6W	
R191	1-249-414-11	CARBON	560	5%	1/6W		R354	1-249-435-11	CARBON	33K	5%	1/6W	
R192	1-249-417-11	CARBON	1K	5%	1/6W		R355	1-249-433-11	CARBON	22K	5%	1/6W	
R193	1-249-423-11	CARBON	3.3K	5%	1/6W		R356	1-249-437-11	CARBON	47K	5%	1/6W	
R194	1-249-423-11	CARBON	3.3K	5%	1/6W		R357	1-249-430-11	CARBON	12K	5%	1/6W	
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R195	1-249-421-11	CARBON	2.2K	5%	1/6W		R358	1-249-435-11	CARBON	33K	5%	1/6W	
R196	1-249-414-11	CARBON	560	5%	1/6W		R359	1-247-883-00	CARBON	150K	5%	1/6W	
R197	1-249-421-11	CARBON	2.2K	5 %	1/6W		R360	1-247-708-11	CARBON	470	5%	1/4W	
R198	1-249-405-11	CARBON	100	5%	1/6W		R361	1-249-417-11	CARBON	1K	5%	1/6W	
R199	1-249-417-11	CARBON	1K	5%	1/6W		R362	1-249-429-11	CARBON	10K	5%	1/6W	
n 20.2	1 240 400 11	CADDON	1000	E e/	1 /411		1 0202	1 040 417 11	CARRON	114	- ~	1 / 511	
R303	1-249-469-11	CARBON	100K	5%	1/4W		R363	1-249-417-11	CARBON	1K	5%	1/6W	
R304 R305	1-249-436-11	CARBON	39K	5%	1/6W		R364	1-249-412-11	CARBON	390	5%	1/6W	
R305	1-247-883-00 1-249-435-11	CARBON CARBON	150K 33K	5% 5%	1/6W 1/6W		R365 R366	1-247-723-11 1-247-891-00	CARBON	6.8K	5% 5%	1/4W	
R308	1-249-435-11	CARBON	220	5% 5%	1/6W		R367	1-247-891-00	CARBON CARBON	330K 47K	5% 5%	1/6W 1/6W	
1,500	1-643-403-11	POOUNG	220	م, د	T/ OM		1 1/207	1-643-43/-11	HUGARJ	4/K	J 76	1/ UN	
R310	1-247-722-11	CARBON	5.6K	5%	1/4W		R368	1-249-428-11	CARBON	8.2K	5%	1/6W	
R311	1-249-439-11	CARBON	68K	5%	1/6W		R370	1-249-419-11	CARBON	1.5K		1/6W	
R312	1-249-439-11	CARBON	68K	5%	1/6W		R371	1-249-435-11	CARBON	33K	5%	1/6W	
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Ref.No.	Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark
R372 R373 R374 R375 R377	1-249-441-11 1-249-435-11 1-249-435-11 1-249-423-11 1-249-409-11	CARBON CARBON CARBON CARBON CARBON	100K 33K 33K 3.3K 220	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R438 R439 R440 R441 R442	1-249-431-11 1-249-418-11 1-249-417-11 1-249-420-11 1-249-421-11	CARBON CARBON CARBON CARBON CARBON	15K 1.2K 1K 1.8K 2.2K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R378 R379 R380 R381 R382	1-249-414-11 1-249-429-11 1-249-437-11 1-249-440-11 1-249-438-11	CARBON CARBON CARBON CARBON CARBON	560 10K 47K 82K 56K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R443 R444 R445 R445 R446	1-249-408-11 1-249-439-11 1-249-431-11 1-249-417-11 1-249-414-11	CARBON CARBON CARBON CARBON CARBON	180 68K 15K 1K 560	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R383 R384 R385 R386 R387	1-215-479-00 1-249-425-11 1-249-414-11 1-249-429-11 1-249-417-11	CARBON CARBON CARBON CARBON CARBON	270K 4.7K 560 10K 1K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R448 R449 R450 R451 R452	1-249-393-11 1-249-418-11 1-249-419-11 1-249-420-11 1-249-393-11	CARBON CARBON CARBON CARBON CARBON	10 1.2K 1.5K 1.8K 10	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R388 R389 R390 R391 R392	1-215-483-00 1-249-433-11 1-249-433-11 1-249-437-11 1-249-431-11	CARBON CARBON CARBON CARBON CARBON	390K 22K 22K 27K 47K 15K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R453 R454 R456 R456 R457	1-249-419-11 1-249-419-11 1-249-409-11 1-249-435-11 1-249-425-11	CARBON CARBON CARBON CARBON CARBON	1.5K 1.5K 220 33K 4.7K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R393 R394 R395 R396 R398	1-249-435-11 1-249-429-11 1-247-895-00 1-249-419-11 1-249-420-11	CARBON CARBON CARBON CARBON CARBON	33K 10K 470K 1.5K 1.8K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R460 R461 R462 R463 R464	1-249-436-11 1-249-431-11 1-249-421-11 1-249-422-11 1-249-409-11	CARBON CARBON CARBON CARBON CARBON	39K 15K 2.2K 2.7K 220	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R401 R402 R403 R404 R406	1-249-412-11 1-247-717-11 1-249-427-11 1-249-429-11 1-249-412-11	CARBON CARBON CARBON CARBON CARBON	390 2.2K 6.8K 10K 390	5% 5% 5% 5% 5%	1/6W 1/4W 1/6W 1/6W 1/6W		R465 R466 R467 R468 R470	1-249-435-11 1-247-721-11 1-215-456-00 1-249-429-11 1-249-420-11	CARBON CARBON CARBON CARBON CARBON	33K 4.7K 30K 10K 1.8K	5% 5% 5% 5% 5%	1/6W 1/4W 1/6W 1/6W 1/6W	
R410 R411 R412 R413 R414	1-249-422-11 1-215-489-00 1-249-417-11 1-249-425-11 1-249-438-11	CARBON CARBON CARBON CARBON CARBON	2.7K 680K 1K 4.7K 56K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R471 R472 R473 R474 R475	1-249-425-11 1-249-420-11 1-249-425-11 1-249-417-11 1-249-405-11	CARBON CARBON CARBON CARBON CARBON	4.7K 1.8K 4.7K 1K 100	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R415 R418 R419 R420 R421	1-249-429-11 1-247-720-11 1-249-429-11 1-249-412-11 1-249-438-11	CARBON CARBON CARBON CARBON CARBON	10K 3.9K 10K 390 56K	5% 5% 5% 5% 5%	1/6W 1/4W 1/6W 1/6W 1/6W		R476 R477 R478 R479 R480	1-249-416-11 1-249-413-11 1-249-421-11 1-249-421-11 1-249-429-11	CARBON CARBON CARBON CARBON CARBON	820 470 2.2K 2.2K 10K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R422 R425 R426 R427 R429	1-249-427-11 1-249-408-11 1-249-435-11 1-249-423-11 1-249-429-11	CARBON CARBON CARBON CARBON CARBON	6.8K 180 33K 3.3K 10K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R481 R482 R483 R484 R485	1-249-429-11 1-249-421-11 1-249-421-11 1-249-433-11 1-249-417-11	CARBON CARBON CARBON CARBON CARBON	10K 2.2K 2.2K 22K 1K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R430 R431 R432 R433 R434	1-249-423-11 1-249-425-11 1-249-428-11 1-249-428-11 1-249-418-11	CARBON CARBON CARBON CARBON CARBON	3.3K 4.7K 8.2K 8.2K 1.2K	5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R486 R487 R488 R1100 R1101	1-249-435-11 1-249-435-11 1-249-435-11 1-249-405-11 1-249-437-11	CARBON CARBON CARBON CARBON CARBON	33K 33K 33K 100 47K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
R435 R436 R437	1-249-417-11 1-249-421-11 1-249-431-11	CARBON CARBON CARBON	1K 2.2K 15K	5% 5% 5%	1/6W 1/6W 1/6W		R1102 R1105 R1106	1-249-429-11 1-249-431-11 1-249-399-11	CARBON CARBON CARBON	10K 15K 33	5% 5% 5%	1/6W 1/6W 1/6W	



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Ref.No. Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark
R1107 1-249-437-1	L CARBON	47K	5%	1/6W		I R1367	1-202-730-00	SOL ID	8.2M	10%	1/2W	
R1108 1-249-405-1		100	5%	1/6W		R1368	1-249-411-11	CARBON	330	5%	1/6W	
R1109 1-249-429-1		10K	5%	1/6W		R1369	1-249-413-11	CARBON	470	5%	1/6W	
R1110 1-249-430-13		12K	5%	1/6W		R1370	1-249-409-11	CARBON	220	5%	1/6W	
R1111 1-249-437-1	L CARBON	47K	5%	1/6W		R1371	1-249-413-11	CARBON	470	5%	1/6W	
R1112 1-249-441-1	CARRON	100K	E e/	1/6W		 p1275	1 240 425 11	CARRON	A 71/	c «	1.611	
R1112 1-249-441-1		1000	5% 5%	1/6W		R1375 R1376	1-249-425-11 1-215-479-00	CARBON CARBON	4.7K 270K	5% 5%	1/6W 1/6W	
R1115 1-249-425-1		4.7K	5%	1/6W		R1377	1-249-434-11	CARBON	27K	5%	1/6W	
R1304 1-247-704-1		220	5%	1/4W			1-249-410-11	CARBON	270	5%	1/6W	
R1305 1-247-704-1	L CARBON	220	5%	1/4W		R1379	1-249-405-11	CARBON	100	5%	1/6W	
R1306 1-247-704-13	L CARBON	220	5%	1/4W		 R1401	1-249-433-11	CARBON	224	E e/	1/6W	
R1307 1-247-704-11		220	5%	1/4W		R1402	1-249-433-11	CARBON	22K 22K	5% 5%	1/6W	
R1308 1-249-429-1		10K	5%	1/6W			1-249-433-11	CARBON	22K	5%	1/6W	
R1309 1-247-704-1		220	5%	1/4W		R1404	1-249-433-11	CARBON	22K	5%	1/6W	
R1310 1-249-437-1	L CARBON	47K	5%	1/6W		R1405	1-249-437-11	CARBON	47K	5%	1/6W	
R1311 1-249-409-1	1 CARBON	220	5%	1/6W		 R1406	1-249-437-11	CADRON	ΛTV	Eø/	1760	
R1312 1-247-887-00		220K	5%	1/6W		R1406	1-249-437-11	CARBON CARBON	47K 47K	5% 5%	1/6W 1/6W	
R1313 1-247-725-1		10K	5%	1/4W			1-249-437-11	CARBON	47K 47K	5%	1/6W	
R1314 1-249-429-1		10K	5%	1/6W		R1409	1-247-704-11	CARBON	220	5%	1/4W	F
R1315 1-249-435-1		33K	5%	1/6W			1-249-421-11	CARBON	2.2K	5%	1/6W	•
R1316 1-249-435-1	CADDON	33K	5%	1 /61		01411	1 047 70F 11	CARRON	104	-~	1 (4)	
R1317 1-249-417-11		1K	5%	1/6W 1/6W		R1411 R1412	1-247-725-11 1-249-429-11	CARBON CARBON	10K	5%	1/4W	
R1318 1-249-417-1		1K	5 %	1/6W			1-249-421-11	CARBON	10K 2.2K	5% 5%	1/6W 1/6W	
R1319 1-249-417-11		1ĸ	5%	1/6W		1(1713	1-243-421-11	CARDON	2 . CN	J /6	1/ UN	
R1320 1-249-409-1		220	5%	1/6W		j	VAR	IABLE RESISTO	ıR			
R1322 1-249-440-1	1 CARRON	กวห	C ev	1 /611		 DV 201	1 220 626 41	DEC 101 01				
R1322 1-249-440-13 R1323 1-249-429-13		82K 10K	5% 5%	1/6W 1/6W		RV 301 RV 302	1-230-626-41					
R1324 1-247-881-0		120K	5%	1/6W			1-230-631-11 1-230-630-11	RES, ADJ, CA RES, ADJ, CA				
R1325 1-249-409-1		220	5%	1/6W			1-230-271-00	RES, ADJ, CA				
R1326 1-249-409-1		220	5%	1/6W			1-230-628-11	RES, ADJ, CA	RBON 2.2	2K		
R1327 1-215-493-00) CARRON	1 M	E o /	1/64		1 001202	1 220 620 11					
R1327 1-215-493-00 R1328 1-249-417-1		1M 1K	5% 5%	1/6W 1/6W		KV13U2	1-230-628-11	RES, ADJ, CA	RBON 2.	2K		
R1329 1-249-437-11		47K	5%	1/6W		1	TDA	NSFORMER				
R1330 1-249-417-1		1K	5%	1/6W		;	110	INST UKPIEK				
R1331 1-247-849-00		5.6K	5%	1/6W		T301	1-404-524-11	DAT				
						T401	1-404-584-11	COIL				
R1332 1-249-437-13		47K	5%	1/6W		!	A	(CTA)				
R1333 1-215-430-00 R1334 1-249-429-1		2.4K 10K	5% 5%	1/6W 1/6W			CRY	STAL				
R1335 1-249-409-1		220	5%	1/6W		x101	1-567-192-11	OSCILLATOR,	CERAMIC			
R1337 1-249-405-1		100	5%	1/6W		X358	1-567-505-11	OSCILLATOR,				
	_					X443	1-567-504-11	OSCILLATOR,				
R1339 1-249-419-1		1.5K	5%	1/6W		1						
R1340 1-249-409-11		220	5% 5~	1/6W		*****	*****	*****	*****	****	****	*****
R1341 1-249-437-11		47K	5%	1/6W		!	## 104E 30C -	EA DOARD	MD: 575			
R1342 1-249-405-13 R1344 1-247-838-00		100 2K	5% 5%	1/6W 1/6W			*A-1245-395-A	FA BOARD, CO	MPLETE (*****	AEP, A	US ONLY)
	_					i,	*A-1245-414-A	FA BOARD, COME		ONLY)	
R1345 1-249-409-1		220	5%	1/6W		1	·= ·- ·· · ·	******			•	
R1347 1-249-405-1		100	5%	1/6W		!						
R1360 1-249-414-1		560	5%	1/6W		!	CAP	ACITOR				
R1362 1-249-414-13 R1363 1-215-491-00		560 820K	5% 5%	1/6W 1/6W		C601 A	.1 126 260 F1	CHM	A -000F		- വേഷാ	2001
VI303 1-513-431-0	O CARBON	0201	3/6	1/6W		1 C601 A	1-136-360-51 1-161-738-00	CERAMIC	0.22MF 0.0047M		20% 20%	250V 400V
R1364 1-249-424-1	1 CARBON	3.9K	5%	1/6W			. 1-161-738-12	CERAMIC	0.0047			4007
R1365 1-249-437-1		47K	5%	1/6W		C610	1-125-222-21	ELECT(BLOCK)		pr	20%	400V
R1366 1-249-422-1		2.7K		1/6W		C617	1-161-738-00	CERAMIC	0.0047M	1F	20%	400V
						1						
						C618	1-102-030-00	CERAMIC	330PF		10%	500V



Ref.No. Part No.	Description		Remark	Ref.No	. Part No.	Description				Remark
C619 1-129-743-00		10% 20%	400 V 16 V		<u>FUS</u>	<u>SE</u>				
C620 1-124-126-00 C621 1-130-062-00 C622 1-124-344-91	FILM 0.0056MF	5% 20%	630 V 100 V	F601	1-532-299-11 *1-533-189-11	FUSE, TIME-LA	G 5A/2	50v	14554	
C623 1-161-973-00		10%	400V	į		INECTOR	1 001			
C624 1-161-973-00 C632 1-102-002-00		10% 10%	400 V 500 V	 FA1	*1-506-348-XX					
C651 1-162-115-00		10% 20%	2KV 160V	FA2	*1-506-348-XX *1-508-765-00	3P PLUG (L)				
C653 1-123-364-00		20%	50 V	FA4	*1-508-767-00 *1-508-765-00					
C654 1-123-338-00 C655 1-123-338-00		20% 20%	25V 25V	FA7	*1-566-058-11		IR KP			
C656 1-162-318-11 C658 1-124-126-00	CERAMIC 0.001MF	10% 20%	500 V 25 V	FA9	*1-564-529-11 *1-564-529-11	CONNECTOR, BO	ARD TO	BOARD	5P	
C659 1-102-030-00		10%	500 v		<u>IC</u>	commediate, be	MILD TO	DOAND	. 31	
C661 1-123-333-00 C662 1-136-332-11	ELECT 100MF FILM 0.01MF	20% 5%	25V 630V	10602	8-719-800-82	DIODE TIPS81				
C663 1-124-038-00 C664 1-124-038-00	ELECT 1MF	20% 20%	50V 50V	IC651	8-759-145-58	IC UPC4558C				
C666 1-124-123-00	ELECT 100MF	20%	10v	ļ	<u>CO1</u>	<u>L</u>				
C667 1-102-121-00 C668 A.1-136-360-51	CERAMIC 0.0022MF FILM 0.22MF	10% 20%	50V 250V	L601 L652	1-407-365-00 1-407-780-00	COIL, CHOKE COIL, SPOOK (CHOK F			
C669 本. 1-161-738-12 C670 本. 1-161-738-12	CERAMIC 0.0047MF CERAMIC 0.0047MF	20% 20%	400 V 400 V			LINK	,,,,,,,,			
C671 A. 1-161-738-12		20%	400V	 PS651						
C673 ⚠ . 1−161−738−12		20% 20%	400V 400V		1-532-686-00 1-532-637-00	LINK, IC LINK, IC				
C677 1-136-173-00	FILM 0.22MF FILM 0.47MF	20% 5%	2 50V 50V			INSISTOR				
C682 1-130-062-00 C686 1-136-173-00	FILM 0.0056MF FILM 0.47MF	5% 5%	630V 50 V	 Q601	8-729-195-82	TRANSISTOR 25	C2958			
DIO	<u>DDE</u>			Q602 		HEAD, WASHER,	TAPPI		EW; Q6	02
	DIODE S3WB60Z			Q651	4-365-216-00 8-729-109-53	SPACER, MICA; TRANSISTOR 25				
D602 8-719-100-65 D605 8-719-924-06	DIODE RD12E-B2 DIODE ERC24-06S			0.550	*4-347-706-00	HEAT SINK (TR		1		
D607 8-719-815-55 D608 8-719-815-55	DIODE 1S1555 DIODE 1S1555			Q652 		TRANSISTOR 25	C2/85			
D609 8-719-925-06	DIODE ERC25-06S			 		ISTOR	unida es	. Francisco (CO)	on a second control of the	- ₩ Periosarcorus .
D651 8-719-900-26 D653 8-719-300-59				R604 /	A.1-217-328-11 A.1-247-289-11	CARBON	8.2M	5%		
D654 8-719-300-59 *4-347-706-00	DIODE CTU-12S HEAT SINK (TR); D654			R609 R612 R613	1-215-894-11	METAL OXIDE	2.2K 100K	5%	2W 2W	F
D655 8-719-000-12				R614	1-215-895-11 1-216-458-11		3.3K 1.8K	5% 5%	2W 2W	F
D656 8-719-300-59 *4-347-706-00	DIODE CTU-12S HEAT SINK (TR); D656			R615 R623	1-205-737-00 1-247-718-11	CEMENTED CARBON	30 2.7K	10%	7W 1/4W	1
D658 8-719-110-03 D659 8-719-110-03	DIODE RD7.5ES-B2 DIODE RD7.5ES-B2			R627 R628	1-249-409-11 1-215-479-00	CARBON CARBON	220 270K	5% 5%	1/6W 1/6W	
D660 8-719-815-55 D661 8-719-815-55	DIODE 1S1555 DIODE 1S1555		,	R629	1-249-427-11	CARBON	6.8K	5% 5%	1/6W	
D663 8-719-109-93 D664 8-719-100-65	DIODE RD6.2ES-B2			R630	1-247-692-11 1-217-352-11	CARBON WIREWOUND	22 390	5% 10%	1/4W 7W	F F
0-/13-100-03	DIODE RD12E-B2			R632	1-217-192-00 1-216-430-11	WIREWOUND METAL OXIDE	0.22		2W 1W	F F
				,	2 220 100-11	ONIDE	550	~ <i>n</i>		•



Ref.No.	Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark
R653	1-249-425-11	CARBON	4.7K	5%	1/6W			DIO	DE				
R654 R662 R663 R664	1-216-464-11 1-249-436-11 1-249-430-11 1-249-441-11		39K 12K	5% 5% 5% 5%	2W 1/6W 1/6W 1/6W	F	D603 D604 D606	8-719-815-55 8-759-157-40 8-719-911-19	IC UPC574J				
R665	1-215-436-00		4.3K		1/6W			CON	NECTOR				
R666 R667 R669 R670	1-247-713-11 1-247-703-11 1-247-720-11 1-249-421-11	CARBON CARBON CARBON CARBON	1K 180 3.9K 2.2K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/6W		FC1 FC2	*1-562-516-11 *1-562-516-11	CONNECTOR,	BOARD TO BOARD TO	BOARD BOARD	5P 5P	
	.1-205-758-11		3.00	10%		F		<u>IC</u>					
R676	.1-244-945-91 1-205-758-11	CEMENTED	100	5% 10%	10W	<u>F</u>	10,601	8-759-100-75					
R677 R678	1-216-346-00 1-247-749-11	METAL OXIDE CARBON	0.56 5 6 0	5% 5%	1W 1/2W	F			NSISTOR				
R679	1-215-924-00		15K	5%	3W	F	Q603 	8-729-178-54	TRANSISTOR	2SC2785			
R680 R681	1-217-353-11 1-246-403-75	WIREWOUND CARBON	470 1.2	10% 5%	7W 1/4W	F		RES	ISTOR				
R683 R684	1-216-488-11 1-246-403-75	METAL OXIDE CARBON	18K 1.2	5% 5%	3W 1/4W	F	R605 R606	1-247-891-00 1-249-433-11		330K 22K	5% 5%	1/6W 1/6W	
	VAR	IABLE RESISTOR	!		•		R608 R611	1-249-421-11 1-215-457-00	CARBON		5% 1%	1/6W 1/6W	
RV651	1-230-230-00		-	A DRON	1 k		R616	1-215-452-00		20K	5%	1/6W	
RV652	1-226-702-00	RES, ADJ, MET	AL GLAZ	ZE 2.2	K		R621 R622	1-249-429-11		10K	5% 5%	1/6W	
	TRA	NSFORMER					R624	1-249-433-11 1-249-425-11	CARBON	22K 4.7K		1/6W 1/6W	
T601 <u>∧</u>	.1-421-758-11	TRANSFORMER,	LINE F	ILTER	read to secure and	Commission and the state of	R625 R626	1-249-441-11 1-247-712-11		100K 820	5% 5%	1/6W 1/4W	
Δ	.1-421-974-11	TRANSFORMER, I	JNE FII	JER (L		us only)	R633	1-247-887-00			5%	1/6W	
. 1605 ₩	.1-421-758-11	TRANSFORMER,	LINE F	ILTER	THE RESIDENCE OF	US ONLY)	R634 R636	1-249-437-11 1-215-471-00		47K 120K	5% 1%	1/6W 1/6W	
Λ	. 1-421-974-11	TRANSFORMER,	JNE FII	.Tex (l		Tolerandor by Co.	R637 R638	1-249-433-11 1-215-435-00		22K 3.9K	5% 1%	1/6W 1/6W	
	.1-437-079-11 .1-448-931-11	TRANSFORMER, SRT	HORIZOI	YTAL D	RIVE		 R639	1-249-425-11	CARBON	4.7K	5%	1/6W	
	1-421-975-11	TRANSFORMER,	LINE FI	LTER (1	WG ONLY)	R674	1-249-440-11	CARBON		5%	1/6W	
	THE	RMISTOR						THE	RMISTOR				
	1-800-944-00 1-806-387-11	THERMISTOR THE		E) (201	Tathrida:		TH6014	<u>L</u> 1-800-944-11	THERMISTOR	TH-4700	i ayı	1. 4. 4. 6	
THP602₹	1-806-387-11	THERMISTOR (F	OSITIV	E) (I)	PAGE.	HIGH I	*****	*****	******	******	*****	*****	*****
	********* *1-621-548-11		******	*****	*****	*****		*A-1270-212-A	QA BOARD, C		AEP, AUS	ONLY)	
		*****						*A-1270-223-A	QA BOARD, CO		IG ONLY	ľ)	
		SPACER, SUPPO ACITOR	ORT					1-537-075-11 1-537-076-11	TERMINAL BO	ARD, INPU ARD, INPU	IT/OUTE	PUT PUT	
C611	1-106-220-00		0.1MF		10%	100y		CAP	ACITOR				
C612 C613	1-106-351-00	MYLAR	0.0022N 10MF	٩F	5% 20%	50V 16V		1-124-236-00		47MF	2	20%	16V
C614	1-123-875-91	ELECT	10MF		20%	50 V	C1701 C1702	1-124-247-00 1-124-247-00	ELECT ELECT	10MF 10MF		20 % 20 %	25 V 25 V
C615			0.001MF		10%	50V	C1703	1-124-236-00 1-124-247-00	ELEÇT	47MF 10MF	2	20% 20%	16V 25V
C616 C625	1-123-875-91 1-123-380-00	ELECT	10MF 1MF		20% 20%	50 V 50 V		1-124-247-00		10MF		20%	25V
C627 C628 C634	1-136-153-00 1-102-820-00 1-106-220-00	CERAMIC	0.01MF 330PF 0.1MF		5% 5% 10%	50 V 50 V 100 V	01/03	1-124-24/ - 00	LLLUI	זטטר		U /AB	LJ¶



Ref.No. Part No.	Description			Remark	Ref.No.	Part No.	Description				Remark
C1706 1-124-247-00 C1707 1-124-247-00 C1708 1-124-236-00 C1709 1-124-247-00 C1710 1-102-965-00	ELECT ELECT ELECT ELECT CERAMIC	10MF 10MF 47MF 10MF 39PF	20% 20% 20% 20% 5%	25V 25V 16V 25V 50V	R1706 R1707 R1708	1-247-104-00 1-249-417-11 1-215-491-00 1-249-417-11 1-215-491-00	CARBON CARBON CARBON CARBON CARBON	75 1K 820K 1K 820K	5% 5% 5% 5% 5%	1/4W 1/6W 1/6W 1/6W 1/6W	
C1712 1-102-965-00 C1714 1-102-965-00 C1715 1-124-247-00 C1716 1-124-247-00 C1717 1-124-247-00	CERAMIC CERAMIC ELECT ELECT ELECT	39PF 39PF 10MF 10MF 10MF	5% 5% 20% 20% 20%	50 V 50 V 25 V 25 V 25 V	R1711 R1712 R1713	1-247-104-00 1-249-414-11 1-247-895-00 1-249-414-11 1-247-895-00	CARBON CARBON CARBON CARBON CARBON	75 560 470K 560 470K	5% 5% 5% 5% 5%	1/4W 1/6W 1/6W 1/6W 1/6W	
C1718 1-124-247-00 C1719 1-124-236-00 C1720 1-124-236-00 C1721 1-124-236-00 C1722 1-124-236-00	ELECT ELECT ELECT ELECT ELECT	10MF 47MF 47MF 47MF 47MF	20% 20% 20% 20% 20%	25V 16V 16V 16V 16V	R1716 R1717 R1718	1-247-104-00 1-249-417-11 1-215-491-00 1-247-708-11 1-249-408-11	CARBON CARBON CARBON CARBON CARBON	75 1K 820K 470 180	5% 5% 5% 5% 5%	1/4W 1/6W 1/6W 1/4W 1/6W	
C1723 1-124-247-00 C1728 1-102-973-00 C1729 1-102-973-00 C1731 1-102-973-00 C1732 1-102-973-00	ELECT CERAMIC CERAMIC CERAMIC CERAMIC	10MF 100PF 100PF 100PF 100PF	20% 5% 5% 5% 5%	25V 50V 50V 50V 50V	R1721 R1722 R1723	1-249-421-11 1-247-708-11 1-249-408-11 1-249-421-11 1-247-708-11	CARBON CARBON CARBON CARBON CARBON	2.2K 470 180 2.2K 470	5% 5% 5% 5% 5%	1/6W 1/4W 1/6W 1/6W 1/4W	
C1738 1-102-973-00 C1743 1-102-973-00 C1744 1-102-973-00 C1747 1-102-965-00 C1748 1-102-965-00	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	100PF 100PF 100PF 39PF 39PF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V	R1727	1-249-408-11 1-247-895-00 1-247-713-11 1-215-491-00 1-247-710-11	CARBON CARBON CARBON CARBON CARBON	180 470K 1K 820K 560	5% 5% 5% 5% 5%	1/6W 1/6W 1/4W 1/6W 1/4W	
C1749 1-102-965-00 C1750 1-102-965-00 C1752 1-102-973-00 C1753 1-102-965-00	CERAMIC CERAMIC CERAMIC CERAMIC	39PF 39PF 100PF 39PF	5% 5% 5% 5%	50 V 50 V 50 V 50 V	R1731 R1732 R1733	1-247-895-00 1-247-713-11 1-215-491-00 1-247-104-00 1-247-104-00	CARBON CARBON CARBON CARBON CARBON	470K 1K 820K 75 75	5% 5% 5% 5% 5%	1/6W 1/4W 1/6W 1/4W 1/4W	
DIC	DDE				 R1736	1-247-104-00	CARBON	75	5%	1/4W	
D1703 8-719-100-38 D1706 8-719-100-38 D1707 8-719-100-38 D1708 8-719-100-38 D1709 8-719-100-38	DIODE RD6.2E DIODE RD6.2E DIODE RD6.2E DIODE RD6.2E DIODE RD6.2E	-B2 -B2 -B2			R1737 R1738 R1739	1-247-104-00 1-249-417-11 1-247-104-00 1-249-429-11	CARBON CARBON CARBON CARBON	75 1K 75 10K	5% 5% 5% 5%	1/4W 1/6W 1/4W 1/6W	
D1710 8-719-100-38 D1711 8-719-100-38	DIODE RD6.2E DIODE RD6.2E				R1743 R1744 R1745	1-249-412-11 1-247-713-11 1-215-491-00 1-249-429-11 1-249-406-11	CARBON CARBON CARBON CARBON CARBON	390 1K 820K 10K 120	5% 5% 5% 5% 5%	1/6W 1/4W 1/6W 1/6W 1/6W	
J25 1-561-534-41	SOCKET 21P					1-249-417-11 1-247-104-00	CARBON CARBON	1K 75	5% 5%	1/6W 1/4W	
					R1752	1-249-401-11 1-249-401-11	CARBON	47	5%	1/6W	
<u>co</u> :						1-249-401-11		47 47	5% 5%	1/6W 1/6W	
L1770 1-408-604-00	MICRO INDUCTO	OR 12UH (WO	G ONLY)		R1756	1-249-418-11 1-249-418-11 1-215-483-00	CARBON CARBON CARBON	1.2K 1.2K 390K	5%	1/6W 1/6W 1/6W	
QA1 *1-566-055-11		OR 3P			R1761	1-215-483-00 1-215-483-00 1-215-483-00	CARBON	390K	5%	1/6W	
QA2 *1-560-278-00	PLUG, CONNEC				İ	1-215-483-00	CARBON CARBON	390K 390K		1/6W 1/6W	
RES	SISTOR					1-249-406-11 1-247-710-11	CARBON CARBON	120 560	5% 5%	1/6W 1/4W	
R1700 1-247-104-00 R1701 1-249-417-11 R1702 1-215-491-00 R1703 1-249-417-11 R1704 1-215-491-00	CARBON CARBON CARBON	1K 5 820K 5	% 1/6W % 1/6W				•	-3		~	



Ref.No. Part No.	Description	Remark	Ref.No. Part No. Description	Remark
<u>SW I</u>	<u>тсн</u>		DIODE	
SW1 1-570-145-11 SW2 1-570-145-11 SW3 1-570-145-11 SW4 1-570-145-11 SW5 1-570-145-11	SWITCH, SLIDE SWITCH, SLIDE SWITCH, SLIDE SWITCH, SLIDE SWITCH, SLIDE		D1770 8-719-911-19 DIODE 1SS119 D1771 8-719-911-19 DIODE 1SS119 D1772 8-719-911-19 DIODE 1SS119 D1773 8-719-911-19 DIODE 1SS119 D1774 8-719-911-19 DIODE 1SS119 D1774 8-719-911-19 DIODE 1SS119	
********	*******	*****	* D1775 8-719-911-19 DIODE 1SS119	
*A-1270-213-A	******		D1776 8-719-911-19 DIODE 1SS119 D1777 8-719-911-19 DIODE 1SS119 D1780 8-719-911-19 DIODE 1SS119 D1781 8-719-911-19 DIODE 1SS119 D1781 8-719-911-19 DIODE 1SS119	
CAP	PACITOR		01700	
C1777 1-102-074-00 C1778 1-102-074-00 C1779 1-124-475-11 C1781 1-101-004-00 C1788 1-124-247-00	CERAMIC 0.001MF CERAMIC 0.001MF ELECT 470MF CERAMIC 0.01MF ELECT 10MF	10% 50V 10% 50V 20% 16V 50V 20% 25V	D1782 8-719-911-19 DIODE 1SS119 D1783 8-719-931-06 DIODE EQBOI-06 D1784 8-719-110-14 DIODE RD9.1ES-B3 D1787 8-719-109-90 DIODE RD5.6ES-B3 D1788 8-719-911-19 DIODE 1SS119 D1789 8-719-911-19 DIODE 1SS119	
C1789 1-124-247-00 C1790 1-124-236-00	ELECT 10MF ELECT 47MF	20% 25V 20% 16V	<u>IC</u>	
C1791 1-124-236-00 C1792 1-102-959-00 C1793 1-101-004-00 C1794 1-124-236-00 C1795 1-101-004-00	ELECT 47MF CERAMIC 22PF CERAMIC 0.01MF ELECT 47MF CERAMIC 0.01MF	20% 16V 5% 50V 50V 20% 16V 50V	IC1770 8-759-800-65 IC LA7910 IC1771 8-759-140-66 IC UPD4066BC IC1772 8-759-102-37 IC UPD4052BC IC1773 8-759-102-37 IC UPD4052BC IC1774 8-759-900-86 IC SN74LS86N	
C1799 1-124-471-00 C1800 1-124-236-00 C1801 1-124-475-11 C1802 1-102-971-00 C1803 1-124-471-00	ELECT 1000MF ELECT 47MF ELECT 470MF CERAMIC 82PF ELECT 1000MF	20% 6.3V 20% 16V 20% 16V 5% 50V 20% 6.3V	IC1775 8-759-901-38 IC SN74LS138N IC1776 8-759-900-09 IC SN74LS09N COIL L1770 1-408-239-00 MICRO INDUCTOR 4.7MMH	
C1804 1-102-971-00 C1806 1-101-361-00 C1807 1-102-111-00 C1808 1-101-004-00 C1810 1-124-236-00	CERAMIC 82PF CERAMIC 150PF CERAMIC 270PF CERAMIC 0.01MF ELECT 47MF	5% 50V 5% 50V 10% 50V 50V 20% 16V	TRANSISTOR Q1773 8-729-117-54 TRANSISTOR 2SA1175 Q1774 8-729-178-54 TRANSISTOR 2SC2785 Q1775 8-729-117-54 TRANSISTOR 2SA1175	
C1811 1-124-236-00 C1813 1-124-236-00 C1820 1-124-236-00 C1821 1-101-004-00 C1823 1-124-267-11	ELECT 47MF ELECT 47MF ELECT 47MF CERAMIC 0.01MF ELECT 0.1MF	20% 16V 20% 16V 20% 16V 50V 20% 50V	Q1776	
C1824 1-124-267-11 C1825 1-124-267-11 C1827 1-101-880-00 C1828 1-123-611-00 C1830 1-124-236-00	ELECT 0.1MF ELECT 0.1MF CERAMIC 47PF ELECT 1MF ELECT 47MF	20% 50V 20% 50V 5% 50V 20% 50V 20% 16V	Q1781 8-729-178-54	
C1831 1-101-004-00 C1832 1-124-236-00 C1833 1-101-004-00 C1834 1-101-004-00	CERAMIC 0.01MF ELECT 47MF CERAMIC 0.01MF CERAMIC 0.01MF	50V 20% 16V 50V 50V	Q1787 8-729-177-43 TRANSISTOR 2SD774 Q1788 8-729-117-54 TRANSISTOR 2SA1175 Q1789 8-729-178-54 TRANSISTOR 2SC2785 Q1790 8-729-177-43 TRANSISTOR 2SD774	
C1835 1-124-236-00 C1837 1-124-963-11 C1838 1-101-880-00	ELECT 47MF ELECT 33MF CERAMIC 47PF	20% 16V 20% 16V 5% 50V	Q1791 8-729-900-36	
C1839 1-124-236-00 C1840 1-101-004-00	ELECT 47MF	20% 16V 50V	Q1795 8-729-178-54 TRANSISTOR 2SC2785 Q1796 8-729-178-54 TRANSISTOR 2SC2785 Q1797 8-729-178-54 TRANSISTOR 2SC2785	



Ref.No. Part No.		-	 Ref.No.	Part No.	Description				Remark
Q1798 8-729-117-54 Q1799 8-729-178-54 Q1802 8-729-900-36 Q1803 8-729-178-54 Q1804 8-729-178-54	TRANSISTOR DTC124ES		R1786 R1787 R1788	1-249-441-11 1-249-441-11 1-249-433-11 1-249-413-11 1-247-895-00	CARBON CARBON CARBON	100K 100K 22K 470 470K	5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
Q1805 8-729-178-54 Q1806 8-729-178-54 Q1807 8-729-178-54 Q1808 8-729-178-54 Q1809 8-729-178-54	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		R1795 R1796 R1797 R1798 R1799	1-249-422-11 1-249-440-11 1-249-434-11 1-249-425-11 1-249-419-11	CARBON CARBON CARBON CARBON CARBON	2.7K 82K 27K 4.7K 1.5K	5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
Q1810 8-729-178-54 Q1811 8-729-178-54 Q1812 8-729-178-54 Q1813 8-729-178-54 Q1814 8-729-178-54	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		R1800 R1801 R1802 R1804 R1805	1-249-425-11 1-249-440-11 1-249-434-11 1-249-429-11 1-249-429-11	CARBON	4.7K 82K 27K 10K 10K	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
Q1815 8-729-178-54 Q1816 8-729-178-54 Q1817 8-729-178-54 Q1818 8-729-900-36 Q1819 8-729-900-36	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR DTC124ES TRANSISTOR DTC124ES		R1806 R1807 R1808 R1809 R1810	1-249-406-11 1-247-849-00 1-247-849-00 1-249-408-11 1-215-422-00	CARBON CARBON CARBON CARBON CARBON	120 5.6K 5.6K 180 1.1K	5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
Q1820 8-729-900-36 Q1822 8-729-178-54 Q1823 8-729-178-54 Q1825 8-729-178-54 Q1826 8-729-178-54	TRANSISTOR DTC124ES TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785		R1811 R1813 R1814 R1815	1-249-413-11 1-249-413-11 1-249-413-11 1-249-412-11 1-249-413-11	CARBON CARBON CARBON CARBON CARBON	470 470 470 390 470	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
Q1827 8-729-178-54 Q1828 8-729-178-54 Q1829 8-729-178-54 Q1830 8-729-177-43 Q1831 8-729-900-36	TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SC2785 TRANSISTOR 2SD774		R1817 R1819 R1820 R1821 R1822	1-215-422-00 1-249-413-11 1-249-406-11 1-249-406-11 1-249-406-11	CARBON CARBON CARBON CARBON CARBON	1.1K 470 120 120 120	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
Q1832 8-729-178-54 Q1891 8-729-900-36	TRANSISTOR 2SC2785 TRANSISTOR DTC124ES		R1823 R1824 R1825	1-249-406-11 1-247-881-00 1-247-881-00	CARBON CARBON CARBON	120 120K 120K	5%	1/6W 1/6W 1/6W	
<u>CO</u>	NNECTOR		R1826 R1827	1-247-881-00 1-249-429-11	CARBON CARBON	120K 10K	5% 5%	1/6W 1/6W	
Q1831 8-729-900-36 Q1832 8-729-178-54 Q1891 8-729-900-36 COI QB11 *1-566-058-11 QB12 *1-566-056-11 QB13 *1-566-054-11 QB15 *1-566-057-11 QB16 *1-566-059-11 QB17 *1-566-059-11 R1771 1-249-469-11 R1776 1-249-405-11	PIN, CONNECTOR 6P PIN, CONNECTOR 4P PIN, CONNECTOR 4P PIN, CONNECTOR 2P PIN, CONNECTOR 5P		R1828 R1829 R1830 R1831	1-249-417-11 1-249-429-11 1-249-429-11 1-249-417-11 1-249-429-11	CARBON CARBON CARBON CARBON	1K 10K 10K 1K 10K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W	
QB16 *1-566-056-11 QB17 *1-566-059-11	PIN, CONNECTOR 4P PIN, CONNECTOR 7P		 R1833	1-249-429-11		10K	5% 5%	1/6W	
RF	SISTOR		R1834	1-249-417-11 1-249-428-11	CARBON CARBON	1K 8.2K	5%	1/6W 1/6W	
91771 1_240_460_11	CADRON 100V	59 1//W	R1836	1-249-422-11	CARBON	2.7K 1K	5%	1/6W	
R1776 1-249-405-11 R1777 1-249-405-11 R1778 1-249-405-11 R1779 1-249-441-11	CARBON 100 CARBON 100 CARBON 100 CARBON 100 CARBON 100K	5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W	R1838 R1839 R1841	1-247-849-00 1-247-849-00 1-249-433-11	CARBON CARBON CARBON CARBON	5.6K 5.6K 22K	5%	1/6W 1/6W 1/6W 1/6W	
R1780 1-249-433-11 R1781 1-249-441-11	CARBON 22K CARBON 100K	5% 1/6W 5% 1/6W	R1842 R1843	1-249-433-11 1-249-462-11	CARBON CARBON	22K 22K	5% 5%	1/6W 1/4W	
R1782 1-249-425-11 R1783 1-249-469-11 R1784 1-249-433-11	CARBON 4.7K CARBON 100K	5% 1/6W 5% 1/4W 5% 1/6W	R1844 R1845 R1846	1-249-405-11 1-249-433-11 1-247-714-11	CARBON CARBON CARBON	100 22K 1.2K	5% 5% 5%	1/6W 1/6W 1/4W	



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Ref.No.	Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark
R1847	1-249-437-11	CARBON	47K	5%	1/6W		R1923	1-249-421-11	CARBON	2.2K	5%	1/6W	
	1-249-428-11	CARBON	8.2K	5%	1/6W		R1925	1-249-440-11	CARBON	82K	5%	1/6W	
R1849	1-249-437-11	CARBON	47K	5%	1/6W		R1926	1-249-440-11	CARBON	82K	5%	1/6W	
	1-249-428-11	CARBON	8.2K	5%	1/6W		R1927	1-249-440-11	CARBON	82K	5%	1/6W	
R1851	1-249-465-11	CARBON	47K	5 %	1/4W		R1928	1-249-405-11	CARBON	100	5%	1/6W	
	1-249-428-11	CARBON	8.2K	5%	1/6W		R1929	1-247-849-00	CARBON	5.6K	5%	1/6W	
K1833	1-249-416-11	CARBON	820	5%	1/6W		R1930	1-247-714-11	CARBON	1.2K	5%	1/4W	
	1-249-416-11 1-249-417-11	CARBON	820	5%	1/6W		R1931	1-249-417-11	CARBON	1K	5%	1/6W	
	1-249-417-11	CARBON CARBON	1K 1K	5% 5%	1/6W 1/6W		R1932 R1935	1-249-417-11 1-249-428-11	CARBON CARBON	1K 8.2K	5% 5%	1/6W 1/6W	
R1857	1-247-713-11	CARBON	1K	5%	1/4W		 R1936	1-249-430-11	CARBON				
	1-249-433-11	CARBON	22K	5%	1/6W		R1937	1-249-428-11	CARBON	12K 8.2K	5% 5%	1/6W 1/6W	
	1-249-417-11	CARBON	1K	5%	1/6W		R1938	1-249-428-11	CARBON	8.2K	5%	1/6W	
	1-249-429-11	CARBON	10K	5%	1/6W		R1939	1-249-428-11	CARBON	8.2K	5%	1/6W	
	1-249-417-11	CARBON	1K	5%	1/6W		R1940	1-249-428-11	CARBON	8.2K	5%	1/6W	
R1862	1-249-417-11	CARBON	1K	5%	1/6W		R1941	1-249-428-11	CARBON	8.2K	5%	1/6W	
	1-249-433-11	CARBON	22K	5%	1/6W		R1942	1-247-695-11	CARBON	39	5%	1/4W	
	1-249-417-11	CARBON	1K	5%	1/6W		R1945	1-249-428-11	CARBON	8.2K	5%	1/6W	
	1-249-425-11	CARBON	4.7K	5%	1/6W		R1950	1-249-428-11	CARBON	8.2K	5%	1/6W	
R1866	1-249-412-11	CARBON	390	5%	1/6W		R1951	1-249-429-11	CARBON	10K	5%	1/6W	
R1867	1-249-417-11	CARBON	1K	5%	1/6W		R1952	1-215-865-11	METAL OXIDE	220	5%	1W	F
	1-249-412-11	CARBON	390	5%	1/6W		R1953	1-249-423-11	CARBON	3.3K	5%	1/6W	
	1-249-421-11	CARBON	2.2K		1/6W		R1955	1-249-435-11	CARBON	33K	5%	1/6W	
	1-249-421-11	CARBON	2.2K	5%	1/6W		R1956	1-249-434-11	CARBON	27K	5%	1/6W	
R18/1	1-249-421-11	CARBON	2.2K	5%	1/6W		R1965 R1966	1-247-712-11 1-247-712-11	CARBON CARBON	820 820	5% 5%	1/4W 1/4W	
R1872	1-249-433-11	CARBON	22K	5%	1/6W		1		0	020	- 70	-,	
	1-249-429-11	CARBON	10K	5%	1/6W		R1967	1-247-712-11	CARBON	820	5%	1/4W	
	1-249-413-11	CARBON	470	5%	1/6W		R1968	1-247-881-00	CARBON	120K	5%	1/6W	
	1-215-432-00	CARBON	3K	5%	1/6W		R1969	1-249-440-11	CARBON	82K	5%	1/6W	
K18/P	1-249-420-11	CARBON	1.8K	5%	1/6W			1-249-417-11 1-249-417-11	CARBON CARBON	1K 1K	5% 5%	1/6W 1/6W	
R1877	1-249-429-11	CARBON	10K	5%	1/6W		1	1 2 13 147 11	U/MDON	110	3,6	1701	
R1879	1-249-469-11	CARBON	100K		1/4W		R1973	1-249-417-11	CARBON	1K	5%	1/6W	
	1-249-417-11	CARBON	1K	5%	1/6W		R1974	1-247-713-11	CARBON	1K	5%	1/4W	
	1-249-422-11	CARBON	2.7K	5%	1/6W		1	*****					
R1882	1-249-417-11	CARBON	1K	5%	1/6W		1	*A-1330-801-A			****	*****	*****
R1883	1-249-433-11	CARBON	22K	5%	1/6W		i	N-1330-001-A	C BOARD, COM				
R1884	1-249-417-11	CARBON	1K	5%	1/6W		İ						
R1885	1-249-416-11	CARBON	820	5%	1/6W		ĺ	1-526-798-21	SOCKET, CRT				
	1-249-417-11	CARBON	1K	5%	1/6W		ĺ	*4-379-160-01	COVER (REAR	LID), C	V		
R1887	1-247-715-11	CARBON	1.5K	5%	1/4W		1	*4-379-167-01	COVER (MAIN)	, CV´			
R1888	1-249-417-11	CARBON	1K	5%	1/6W		į	CON	NECTOR				
	1-249-415-11	CARBON	680	5%	1/6W		01	+1 506 271 62	00 0115 111				
	1-249-433-11 1-249-428-11	CARBON CARBON	22K 8.2K	5% 5%	1/6W 1/6W			*1-506-371-00					
	1-249-415-11	CARBON	680	5%	1/6W			*1-508-765-00 *1-508-765-00	3P PLUG (M) 3P PLUG (M)				
							C4	*1-566-055-11	PIN, CONNECT				
R1898	1-247-849-00	CARBON	5.6K		1/6W			*1-566-061-11	PIN, CONNECT	OR 9P			
	1-247-849-00	CARBON	5.6K	5%	1/6W		C8	*1-508-784-00	1P PLUG				
	1-249-429-11 1-249-417-11	CARBON	10K	5% 5%	1/6W		-						
	1-249-417-11	CARBON CARBON	1K 390	5% 5%	1/6W 1/6W			CAP	ACITOR				
R1921	1-249-424-11	CARBON	3.9K	5%	1/6W		C701	1-162-116-00	CERAMIC	680PF		10%	2KV
R1922	1-249-424-11	CARBON	3.9K	5%	1/6W		C702	1-129-714-00	FILM	0.01MF		10%	630V
				-,-	_,		C703	1-123-356-00	ELECT	10MF		20%	50 V
							C704	1-123-948-00	ELECT	22MF		20%	250V
							C705	1-108-692-81	MYLAR	0.01MF		10%	200V



Ref.No.	Part No.	Description			Remark	Ref.No.	Part No.	Description				Re	mark
C706 C707 C708 C709 C710	1-129-751-00 1-102-116-00 1-102-116-00 1-102-116-00 1-102-116-00	FILM CERAMIC CERAMIC CERAMIC CERAMIC	0.1MF 680PF 680PF 680PF 680PF	10% 10% 10% 10% 10%	400V 50V 50V 50V 50V	 R701 R702 R703	1-216-397-11 1-202-848-00 1-202-838-00	METAL OXIDE SOLID SOLID	4.7 680K 100K	5% 10% 10%	3W 1/2W 1/2W	F	
C711 C712 C713 C714 C715	1-123-356-00 1-102-114-00 1-102-116-00 1-162-622-11 1-102-125-00	ELECT CERAMIC CERAMIC CERAMIC CERAMIC	10MF 470PF 680PF 330PF 0.0047MF	20% 10% 10% 10% 10%	25V 50V 50V 6.3KV 50V	R704 R705 R706 R707 R708	1-202-846-00 1-202-549-00 1-202-838-00 1-202-842-11 1-202-818-00	SOL ID SOL ID SOL ID SOL ID	100 100K 220K 1K	10% 5% 10%	1/2W 1/2W 1/2W 1/2W 1/2W		
C718 C719	1-102-074-00 1-102-050-00	CERAMIC CERAMIC	0.001MF 0.01MF	10%	50V 500V	R709 R710 	1-202-818-00	SOL ID	1K 1K		1/2W 1/2W		
	DIO	DE				R711 R712	1-202-837-00 1-202-842-11	SOL ID SOL ID	82K 220K	10%	1/2W 1/2W		
D701	8-719-911-19	DIODE 1SS119				R713 R714	1-216-486-00 1-249-409-11	METAL OXIDE CARBON	8.2K 220	5% 5%	3W 1/6W	F	
D702 D703	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119				R716	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F	
D704 D705	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119				R717 R720	1-249-409-11 1-216-486-00	CARBON METAL OXIDE	220 8.2K	5% 5%	1/6W 3W	F	
D706	8-719-911-19	DIODE 1SS119				R721 R722	1-249-409-11 1-249-405-11	CARBON CARBON	220 100	5% 5%	1/6W 1/6W		
D707 D708	8-719-911-19	DIODE 1SS119				R723	1-249-405-11	CARBON	100	5% 5%	1/6W		
D709	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119				R724	1-249-405-11	CARBON	100	5 %	1/6W		
D710	8-719-901-83	DIODE 15583				R725 R726	1-249-429-11 1- 249 -409-11	CARBON CARBON	10K 220	5% 5%	1/6W 1/6W		
D711 D712	8-719-901-83 8-719-901-83	DIODE 1883				R727	1-249-429-11	CARBON	10K	5%	1/6W		
D713	8-719-901-83	DIODE 1SS83 DIODE 1SS83				R728 	1-215-404-00	CARBON	200	5%	1/6W		
	COI	L				R729 R730	1-249-385-11 1-249-408-11	CARBON CARBON	2.2 180	5% 5%	1/6W 1/6W		
L701	1-407-711-00	— MICRO INDUCT	UD 33UIM			R731	1-247-704-11 1-247-704-11	CARBON CARBON	220 220	5% 5%	1/4W 1/4W	F F	
L702	1-407-705-00	MICRO INDUCT	OR 100UH			R733	1-247-704-11	CARBON	220	5%	1/4W	F	
L703 L704	1-407-703-00 1-408-442-11	MICRO INDUCT MICRO INDUCT	OR 10UH			R734	1-247-717-11	CARBON	2.2K	5 %	1/4W		
L705	1-408-404-00	MICRO INDUCT	OR 3.9UH			R735	1-247-138-00 1-247-717-11	CARBON CARBON	2K 2.2K	5% 5%	1/4W 1/4W		
L706	1-407-705-00	MICRO INDUCT				R737	1-249-441-11	CARBON	100K	5 %	1/6W		
L707	1-408-434-00	MICRO INDUCT	OR 2.2UH			R739 	1-247-887-00	CARBON	220K	5%	1/6W		
	TRA	NSISTOR				R740 R741	1-215-902-11 1- 249-438 -11	METAL OXIDE CARBON	47K 56K	5% 5%	2W 1/6W	F	
Q701		TRANSISTOR 2				R742	1-249-429-11	CARBON	10K	5%	1/6W	F	
Q702 Q703	8-729-178-54 8-729-200-17	TRANSISTOR 2 TRANSISTOR 2				R743 R744	1-249-429-11 1-247-725-11	CARBON CARBON	10K 10K	5% 5%	1/6W 1/4W	F F	
Q704 Q705	8-729-326-11	TRANSISTOR 2				Í I R745	1-247-713-11						
•		TRANSISTOR 2				R745 R746	1-215-879-51		1K 47K	5% 5%	1/4W 1W	F F	
Q706 Q707	8-729-200-17 8-729-200-17	TRANSISTOR 2 TRANSISTOR 2				R747 R775	1-247-725-11 1-247-779-00	CARBON CARBON	10K 6.8	5% 5%	1/4W 1/6W	F	
Q708	8-729-326-11	TRANSISTOR 2	SC2611			R776	1-247-779-00	CARBON	6.8	5%	1/6W		
Q709 Q710	8-729-178-54 8-729-255-12	TRANSISTOR 2 TRANSISTOR 2				 R777	1-249-441-11	CARBON	100K	5%	1/6W		
Q712		TRANSISTOR 2				R799	1-202-842-11		220K		1/2W		
Q714	8-729-200-17	TRANSISTOR 2	SA1091			1	VAR	IABLE RESISTOR					
Q715 Q716	8-729-200-17 8-729-200-17	TRANSISTOR 2 TRANSISTOR 2					1-226-114-00 1-230-619-11	RES, ADJ, MET RES, ADJ, MET	AL GLA	ZE 2.21 ZE 1101	M M		



Ref.No.	Part No.	Description			Remark	l <u>Ref.No.</u>	Part No.	Description			Remark
RV 705	1-228-731-00 1-228-729-00 1-228-724-00	RES, ADJ, CE	RAMIC CARBON RAMIC CARBON RAMIC CARBON	220K		C564 C566 C568	1-102-244-00 1-106-367-00 1-106-212-00	CERAMIC MYLAR MYLAR	220PF 0.01MF 0.047MF	10% 10% 10%	500V 100V 100V
*****	******	*****	*****	*****	******	C570 C571	1-102-212-00 1-123-349-00	CERAMIC ELECT	820PF 1000MF	10% 20%	500V 35V
	*A-1345-708-A	D BOARD, COM				C572	1-102-244-00	CERAMIC	220PF	10%	500V
		******	****			C573 C574	1-123-935-00 1-106-369-00	ELECT . MYLAR	33MF 0.012MF	20% 10%	160V 200V
	CAP	ACITOR				C575 C576	1-123-024-00 1-162-114-00	ELECT CERAMIC	33MF 0.0047MF		160V 2KV
C503 C505	1-108-614-91 1-106-212-00	MYLAR MYLAR	0.001MF 0.047MF	10% 10%	100V 100V	j				00%	
C506	1-124-902-00	ELECT	0.47MF	20%	50V	C578 C579	1-124-902-00 1-102-030-00	ELECT CERAMIC	0.47MF 330PF	20% 10%	50 V 500 V
C507	1-123-369-00	ELECT	4.7MF	20%	25V	C580	1-108-689-11	MYLAR	0.0056MF	10%	200V
C508	1-108-627-91	MYLAR	0.012MF	10%	100V	C581 C582	1-136-512-11 1-162-135-11	FILM CERAMIC	0.0106MF 560PF	3% 10%	1.4KV 2KV
C509	1-106-220-00	MYLAR	0.1MF	10%	100V	0302	1-102-133-11	CERAPITO	30077	10%	ZNY
C510	1-106-367-00	MYLAR	0.01MF	10%	100V	C583	1-106-367-00	MYLAR	0.01MF	10%	100V
C511 C512	1-123-330-00 1-124-927-11	ELECT ELECT	22MF 4.7MF	20% 20%	16V 50V	C586 C587	1-162-115-00 1-129-747-00	CERAMIC FILM	330PF 0.047MF	10% 10%	2KV 400V
				202		C588	1-136-513-11	FILM	0.82MF	5%	200V
C513	1-130-868-00	FILM	0.0056MF	5%	50V	C589	1-136-116-00	FILM	1MF	5%	200V
C514 C515	1-123-356-00 1-123-356-00	ELECT ELECT	10MF 10MF	20% 20%	16V 16V	C590	1-123-356-00	ELECT	10MF	20%	25 v
C516	1-102-820-00	CERAMIC	330PF	5%	50 V	C593	1-124-555-00	ELECT	1000MF	20%	16V
C517	1-124-475-11	ELECT	470MF	20%	16V	C598	1-123-332-00	ELECT	47MF	20%	167
C518	1-106-371-00	MYLAR	0.015MF	10%	100V	C1510	1-106-367-00 1-124-477-11		0.01MF 47MF	10% 20%	100 V 25 V
C519	1-136-173-00	FILM	0.47MF	5%	50V			LLLGI		20%	231
C520 C521	1-124-902-00 1-124-902-00	ELECT	0.47MF 0.47MF	20%	50 V 50 V	C1516	1-124-927-11	ELECT	4.7MF	20%	50 V
C522	1-124-791-11	ELECT ELECT	1MF	20% 20%	50 V 50 V	C1517 C1518	1-124-902-00 1-108-630-91	ELECT MYLAR	0.47MF 0.022MF	20% 10%	50V 100V
						C1519	1-124-791-11	ELECT	1MF	20%	50 V
C523 C524	1-106-367-00 1-108-622-91	MYLAR MYLAR	0.01MF 0.0047MF	10% 10%	100V 100V	C1520	1-123-875-91	ELECT	10MF	20%	50 V
C525	1-108-425-00	MYLAR	0.022MF	10%	200V	C1521	1-108-855-00	MYLAR	0.33MF	10%	50 V
C526	1-123-321-00	ELECT	220MF	20%	167	C1522	1-108-837-00	MYLAR	0.01MF	10%	50 V
C531	1-123-356-00	ELECT	10MF	20%	50 V	C1524 C1525	1-106-172-00 1-124-927-11	MYLAR	0.001MF	5%	50V
C532	1-124-005-11	ELECT	4.7MF	20%	50 V	C1526	1-102-971-00	ELECT CERAMIC	4.7MF 82PF	20% 5%	50 V 50 V
C535 C536	1-131-501-00	TANTALUM	3.3MF	10%	10V	j					
C537	1-131-375-00 1-123-875-91	TANTALUM ELECT	4.7MF 10MF	10% 20%	6.3V 50V	C1527 C1528	1-123-356-00 1-123-356-00	ELECT ELECT	10MF 10MF	20% 20%	50 V 50 V
C538	1-124-117-00	ELECT	680MF	10%	25V	C1529	1-124-791-11	ELECT	1MF	20%	50 V
C542	1-123-356-00	ELECT	10MF	20%	167	C1531	1-102-231-11	CERAMIC	47PF	10%	500 V
C544	1-130-996-00	FILM	0.047MF	5%	50 v	C1532	1-124-445-00	ELECT	100MF	20%	16V
C546	1-124-477-11	ELECT	47MF	20%	25V	C1537	1-108-845-00	MYLAR	0.047MF	10%	50 V
C551 C552	1-108-630-91 1-102-030-00	MYLAR CERAMIC	0.022MF 330PF	10% 10%	100 V 500 V]	CON	NECTOR			
C553	1-106-192-00	MYLAR	0.0068MF	10%	100V	i	LUN	NECTOR			
C554	1-123-345-00	ELECT	100MF	20%	35 V		*1-508-766-00		op 2p		
C556	1-123-943-00	ELECT	1MF	20%	250 V		*1-566-055-11 *1-566-054-11	PIN, CONNECT PIN, CONNECT	OR 3P		
C557	1-123-356-00	ELECT	10MF	20%	25V	D4	*1-508-767-00	5P PLUG	O		
C558 C559	1-123-356-00 1-124-192-00	ELECT ELECT	10MF 4.7MF	20% 20%	16V 50V	D5	*1-508-765-00	3P PLUG (M)			
				2010	30 •	D6	*1-564-038-00	CONNECTOR PL	UG. DY (MIN	I) 6 P	
C560	1-106-208-00	MYLAR	0.033MF	10%	1007	D7	*1-566-056-11	PIN, CONNECT	OR 4P	-, -,	
C561 C562	1-108-614-91 1-108-616-91	MYLAR MYLAR	0.001MF 0.0015MF	10% 10%	100V 100V		*1-566-055-11	PIN, CONNECT	OR 3P		
C563	1-123-943-00	ELECT	1MF	20%	0.50		*1-508-766-00 *1-508-765-00	4P PLUG (M) 3P PLUG (M)			



Ref.No.	Part No.	<u>Description</u> <u>Remark</u>	Ref.No.	Part No.	Description			Remark
D14 ·	*1-566-054-11	PIN, CONNECTOR 2P		1-407-717-00 1-459-115-00	MICRO INDUCTOR	1ммн		
	<u>D10</u>	<u>DE</u>	22020		•			
D501 D502 D504	8-719-911-19 8-719-911-55 8-719-911-19		 NL601	1-519-237-11	<u>LAMP</u> LAMP, NEON			
D505 D507	8-719-911-19	DIODE 155119 DIODE RD5.6E-B2	İ	TRA	INSISTOR			
D509 D510 D551 D554 D557	8-719-911-19 8-719-911-55 8-719-300-65 8-719-918-77	DIODE RD8.2ES-B1 DIODE 1SS119 DIODE UO5G DIODE ES1F DIODE V19G	Q507 Q508 Q551	8-729-178-54 8-729-178-54 8-729-117-54 8-729-168-82	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC	2785 2785 1175 2688		
D558 D560 D561 D562 D1510	8-719-300-76 8-719-305-15 8-719-928-08 8-719-300-65 8-719-911-55	DIODE RH1A DIODE GH3F DIODE ERD28-08S DIODE ES1F DIODE U05G DIODE 1SS119 DIODE U05G	Q552 Q553 Q1510 Q1511	4-367-513-00 8-729-313-42 8-729-117-54 8-729-178-54	TRANSISTOR 25D SPACER, MICA; (TRANSISTOR 25D TRANSISTOR 25A TRANSISTOR 25C	Q552 1134 1175 2785		
D1511 D1512 D1513 D1514 D1516	8-719-911-19 8-719-911-19 8-719-911-55 8-719-911-55 8-759-157-40	DIODE 1SS119 DIODE 1SS119 DIODE U05G DIODE U05G DIODE UPC574J	Q1512 Q1513 Q1514 Q1515 Q1516	8-729-900-63 8-729-900-36 8-729-900-36 8-729-105-73	TRANSISTOR DTC: TRANSISTOR DTA: TRANSISTOR DTC: TRANSISTOR DTC: TRANSISTOR 25K!	124ES 124ES 124ES 523-L2		
D1517 D1518 D1521 D1522	8-719-918-77 8-719-918-77 8-719-911-19 8-719-000-12	DIODE V19G DIODE V19G DIODE 1SS119 DIODE MC931	Q1517 Q1518 Q1519 Q1520 Q1521	8-729-900-36 8-729-900-36 8-729-178-54 8-729-178-54 8-729-117-54	TRANSISTOR DTC: TRANSISTOR DTC: TRANSISTOR 2SC: TRANSISTOR 2SC: TRANSISTOR 2SAI	124ES 124ES 2785 2785 1175		
	FUS	<u>E</u>	1 01522	8-729-177-43	TRANSISTOR 2SD TRANSISTOR 2SB	774		
F501 ⚠	.1-532-285-11 *1-533-189-11	FUSE, TIME-LAG 1.25A/250V HOLDER, FUSE; F501	Q1323		ISTOR	7 34		
	IC		R501	1-247-725-11		10K 5%	1/4W	
IC502	8-759-100-60 8-759-170-12 8-759-105-82	IC UPC1377C IC UPC78M12H IC UPC1378H-P HEAD, WASHER, TAPPING SCREW; IC551	R503 R504 R505 R506	1-249-422-11 1-249-411-11 1-247-702-11 1-247-700-11	CARBON CARBON	2.7K 5% 330 5% 150 5% 100 5%	1/6W 1/6W 1/4W 1/4W	
IC552	8-759-145-58		R507	1-246-536-00 1-249-462-11		430K 5% 22K 5%	1/4W 1/4W	
IC1511	8-759-145-58 8-759-145-58 8-759-909-70	IC UPC4558C	R509 R510 R511	1-249-433-11 1-247-881-00 1-247-868-00	CARBON 2 CARBON 1	22K 5% 120K 5% 36K 5%	1/6W 1/6W 1/6W	
	<u>C01</u>	<u>L</u>	R512	1-249-411-11		330 5%	1/6W	
L551 L552 L555 L556 L557	1-408-227-00 1-407-699-00	HLC COIL (WITH CORE) MICRO INDUCTOR 470UH MICRO INDUCTOR 33UH COIL, FERRITE CHOKE	R513 R514 R515 R516 	1-249-468-11 1-247-723-11 1-249-459-11 1-249-435-11 1-249-407-11	CARBON CARBON I CARBON I CARBON I	32K 5% 6.8K 5% L2K 5% 33K 5%	1/4W 1/4W 1/4W 1/6W	_
L558 L559 L560 L562 L563	1-407-695-00 1-408-239-00	COIL, CHOKE COIL, SPOOK CHOKE 3.3UH MICRO INDUCTOR 15UH MICRO INDUCTOR 4.7MMH COIL, DYNAMIC CONVERSION CHOKE	R518 R519 R520 R521 	1-247-701-11 1-247-849-00 1-249-419-11 1-249-417-11 1-249-439-11	CARBON 5 CARBON 1 CARBON 1	120 5% 5.6K 5% 1.5K 5% 1K 5%	1/4W 1/6W 1/6W 1/6W	r



D HD HC K

Ref.No. Part No.	Description		Remark	Ref.No	. Part No.	Description				Remark	Ref.No.	Part No.	Description			Remark	Ref.No.	. Part No.	Description	:		Remark
R523 1-215-447-00 R524 1-214-756-00	METAL METAL CARBON METAL OXIDE	13K 1% 10K 5% 15K 5%	1/6W 1/4W 1/6W 1W F 1/6W	R583 R584 R585 R586	1-249-433-11 1-246-511-00 1-247-719-11 1-249-428-11 1-246-523-00	CARBON CARBON CARBON CARBON		5%	1/6W 1/4W 1/4W 1/6W 1/4W		R1548 R1550 R1551	1-249-429-11 1-215-493-00 1-247-895-00 1-249-437-11 1-247-849-00	CARBON CARBON CARBON	10K 5% 1M 5% 470K 5% 47K 5% 5.6K 5%	1/6W 1/6W 1/6W 1/6W 1/6W		 - - 	_	************			
R528 1-249-405-11 R529 1-214-743-00 R530 1-214-753-00 R534 1-214-747-00 R535 1-249-424-11	CARBON METAL METAL METAL	100 5% 3.9K 1% 10K 1% 5.6K 1%	1/6W 1/4W 1/4W 1/4W 1/6W	R588 R589 R590 R592 R593	1-249-422-11 1-249-424-11 1-249-421-11	CARBON CARBON CARBON METAL OXIDE	2.7K 3.9K 2.2K 2.2K 1K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1W 1/6W	F	R1558 R1559 R1560	1-247-881-00 1-247-887-00 1-249-441-11 1-249-419-11 1-249-435-11	CARBON CARBON CARBON	120K 5% 220K 5% 100K 5% 1.5K 5% 33K 5%	1/6W 1/6W 1/6W 1/6W 1/6W		C982 C983 C984 C985 C986	1-130-023-00 1-130-028-00 1-108-837-00 1-123-617-00 1-123-356-00	FILM MYLAR ELECT ELECT	0.0027MF 0.0068MF 0.01MF 10MF 10MF	5% 5% 10% 20% 20%	50V 50V 50V 16V 25V
R536 1-247-849-00 R537 1-249-429-11 R538 1-216-350-11 R539 1-249-413-11 R540 1-247-872-00	CARBON : CARBON : METAL OXIDE : CARBON	5.6K 5% 10K 5% 1.2 5% 470 5%	1/6W 1/6W 1W F 1/6W 1/6W	 R594 R595 R596 R597 R598	1-249-435-11 1-249-421-11 1-249-420-11 1-249-409-11 1-246-525-00	CARBON CARBON CARBON CARBON		5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/4W		R1563 R1565 R1566	1-249-440-11 1-249-409-11 1-216-349-00 1-216-430-11 1-216-430-11	CARBON METAL OXIDE METAL OXIDE	82K 5% 220 5% 1 5% 390 5% 390 5%	1/6W 1/6W 1W 1W		 	8-719-109-85	ONNECTOR			
R541 1-249-429-11 R542 1-214-779-00 R543 1-215-493-00 R544 1-214-781-00 R545 1-214-765-00	METAL CARBON METAL	120K 1% 1M 5% 150K 1%	1/6W 1/4W 1/6W 1/4W 1/4W	 R599 R1501 R1502 R1503 R1505	1-215-451-00	METAL METAL CARBON	15K 100K 18K 5.6K 1K	1% 1%	1/6W 1/6W 1/6W 1/4W 1W		R1569 R1570 R1571 R1572	1-249-419-11 1-249-417-11 1-249-382-11 1-249-382-11 1-247-883-00 1-247-773-00	CARBON CARBON CARBON	1.5K 5% 1K 5% 1.2 5% 1.2 5% 150K 5% 3.9 5%	1/6W 1/6W 1/6W 1/6W 1/6W	F F	HC2	*1-566-056-11 *1-566-054-11 *1-566-054-11	PIN, CONNEC PIN, CONNEC PIN, CONNEC	TOR 4P TOR 2P		
R546 1-249-424-11 R547 1-249-429-11 R548 1-249-421-11 R549 1-247-704-11 R551 1-214-681-00	CARBON CARBON CARBON	10K 5% 2.2K 5% 220 5%	1/6W 1/6W 1/6W 1/4W 1/4W	R1511 R1515 R1516	1-249-429-11 1-249-437-11 1-249-429-11 1-249-433-11 1-249-430-11	CARBON CARBON CARBON	10K 22K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R1583 R1584 R1585 R1586	1-249-429-11 1-249-413-11 1-249-417-11 1-247-713-11	CARBON CARBON CARBON CARBON	10K 5% 470 5% 1K 5% 1K 5%	1/6W 1/6W 1/6W 1/4W		 R982	1-249-429-11	ESISTOR CARBON	10K 5%	1/6W	
R553 1-247-746-11 R554 1-246-533-00 R555 1-249-431-11	CARBON CARBON CARBON CARBON	330K 5% 15K 5% 120K 5%	1/2W 1/4W 1/6W 1/4W 1/6W	 R1518 R1519 R1520 R1521	1-249-425-11 1-249-429-11 1-247-895-00 1-249-429-11 1-249-409-11	CARBON CARBON CARBON CARBON	4.7K 10K 470K 10K	5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		R1588	1-249-424-11 1-249-416-11 VAF 1-228-723-00	CARBON RIABLE RESISTO		1/6W 1/6W		R983 R984 R985 R986 R988	1-249-417-11 1-249-429-11 1-249-417-11 1-249-429-11	CARBON CARBON CARBON CARBON	1K 5% 10K 5% 1K 5% 10K 5%	1/6W 1/6W 1/6W 1/6W	
R558 1-249-437-11	CARBON CARBON CARBON CARBON	47K 5% 270K 5% 470K 5% 10K 5%	1/6W 1/6W 1/6W 1/6W 1/6W	 R1523 R1524 R1525 R1526	1-249-441-11 1-249-437-11 1-249-425-11 1-249-435-11 1-249-421-11	CARBON CARBON CARBON CARBON	100K 47K 4.7K	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		RV509 RV552 RV553	1-228-717-00 1-224-249-XX 1-228-725-00 1-228-720-00 1-228-727-00	RES, ADJ, ME RES, ADJ, CE RES, ADJ, CE	TAL GLAZE 1 RAMIC CARBO RAMIC CARBO	K N 22K N 1K		R989 R990 R991 R992 	1-249-417-11 1-249-432-11 1-249-408-11 1-249-427-11	CARBON CARBON CARBON CARBON	1K 5% 18K 5% 180 5% 6.8K 5%	1/6W 1/6W 1/6W 1/6W	
R564 1-247-719-11 R565 1-216-428-00 R567 1-249-429-11 R558 1-247-715-11 R569 1-249-410-11	CARBON METAL OXIDE CARBON CARBON	3.3K 5% 180 5% 10K 5% 1.5K 5%	1/4W F 1W F 1/6W 1/4W F 1/6W F	R1528 R1529 R1530 R1532	1-249-438-11 1-249-431-11 1-249-423-11 1-249-431-11 1-249-437-11	CARBON CARBON CARBON CARBON	56K 15K 3.3K 15K	5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W			1-519-063-XX	ARK GAP DISCHARGING		N 3.3K		RV 983	1-237-349-11	ARIABLE RESIS L RES, VAR, (L RES, VAR, (CARBON 10K	1/6W	
R570 1-249-417-11 R571 1-247-711-11 R572 1-249-418-11 R573 1-216-445-11 R574 1-249-409-11	CARBON CARBON METAL OXIDE	680 5% 1.2K 5% 12 5%	1/6W 1/4W 1/6W 2W F 1/6W	R1535 R1536 R1537	1-249-437-11 1-249-413-11 1-249-418-11 1-249-423-11 1-215-480-00	←CARBON CARBON ₄CARBON	47K 470 1.2K 3.3K 300K	5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W		T552 T553	1-437-090-00 1-437-191-11					RV 985 RV 986 RV 987	1-237-350-11 1-230-631-11 1-237-348-11	RES, VAR, (RES, ADJ, (RES, VAR, (CARBON 20K CARBON 22K CARBON 5K	*****	*****
R575 1-247-725-11 R576 1-249-427-11 R577 1-249-429-11 R578 1-249-411-11 R579 1-247-719-11	CARBON CARBON CARBON	6.8K 5% 10K 5% 330 5%	1/4W 1/6W 1/6W 1/6W F 1/4W	R1540 R1541 R1542	1-249-429-11 1-216-510-11 1-249-429-11 1-249-429-11 1-215-466-00	METAL OXIDE CARBON CARBON		5%	1/6W 5W 1/6W 1/6W 1/6W	F	TH551	1-806-213-00 1-800-944-00	THERMISTOR THERMISTOR TH		*****	*****	 	*A-1389-865-	A K BOARD, CO	OMPLETE		
R580 1-247-725-11 R581 1-216-431-11 R582 1-216-343-00	METAL OXIDE	560 5%	1/4W F 1W F 1W F	R1545	1-247-885-00 1-247-874-00 1-215-479-00	CARBON	180K 62K 270K	5%	1/6W 1/6W 1/6W				******** ITCH				C201 C202 C203	1-124-902-00 1-124-902-00 1-123-332-00) ELECT	0.47MF 0.47MF 47MF	20% 20% 20%	50 V 50 V 16 V
											S996 S997	1-570-145-11 1-570-145-11	SWITCH, SLID SWITCH, SLID				1					

PVM-2130QM RM-668 PVM-2130QM RM-668





Ref.No. Part No	o. Description	on		Remark	Ref.No	. Part No.	Description	<u>n</u>		Remark	Ref.No.	Part No.	Description			Remark	Ref.No.	. Part No.	Description			Remark
C205 1-106-2 C206 1-102-1 C207 1-102-1	332-00 ELECT 222-00 MYLAR 125-00 CERAMIC 125-00 CERAMIC 222-00 MYLAR	47MF 0.12MF 0.0047MF 0.0047MF 0.12MF	20% 10% 10% 10% 10%	16V 100V 50V 50V 100V	Q201 Q207	8-729-178-54 8-729-177-43	TRANSISTOR				D920 D921 D922 D923 D924	9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01	LED TLY263P LED TLY263P LED TLY263P				D945 D946 D947 D948 D949	8-719-911-19 8-719-911-19 9-990-901-01	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 LED TLS263P LED TLS263P			
C210 1-123-3 C211 1-123-3 C212 1-123-3	369-00 ELECT 369-00 ELECT 369-00 ELECT 369-00 ELECT 321-00 ELECT	4.7MF 4.7MF 4.7MF 4.7MF 220MF	20% 20% 20% 20% 20%	25 V 25 V 25 V 25 V 16 V	R201 R202 R203 R204 R205	1-249-441-11 1-249-441-11 1-249-419-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON	100K 5% 100K 5% 1.5K 5% 10K 5% 10K 5%	1/6W 1/6W 1/6W 1/6W 1/6W		D925 D926 D927 D928 D929	9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01	LED TLY263P LED TLY263P LED TLY263P				D950 D951 D952 D953 D954		LED TLY263P			
C215 1-124-9 C218 1-123-3 C219 1-124-4	905-11 ELECT 905-11 ELECT 324-00 ELECT 445-00 ELECT 925-11 ELECT	3.3MF 3.3MF 1000MF 100MF 2.2MF	20% 20% 20% 20% 20%	50V 50V 16V 16V 50V	R206 R207 R208 R209 R210	1-249-429-11 1-249-419-11 1-249-419-11 1-249-432-11 1-249-432-11	CARBON CARBON CARBON CARBON	10K 5% 1.5K 5% 1.5K 5% 18K 5% 18K 5%	1/6W 1/6W 1/6W 1/6W 1/6W		D930 D931 R905	9-990-893-01 9-990-893-01 <u>RES</u>	LED TLY263P	100 5	S Y 1.	′4W	D955 D956 D957 D958 D959	9-990-893-01	LED TLY263P LED TLY263P LED TLY263P LED TLY263P LED TLY263P			
C224 1-124-9 C226 1-123-9 C227 1-123-9	332-00 ELECT 925-11 ELECT 356-00 ELECT 349-00 ELECT 633-81 MYLAR	47MF 2.2MF 10MF 1000MF 0.039MF	20% 20% 20% 20% 10%	16 V 50 V 25 V 35 V 100 V	R212 R213 R221 R223	1-249-425-11 1-249-405-11 1-215-865-11 1-247-881-00	CARBON CARBON METAL OXID CARBON	4.7K 5% 100 5% E 220 5% 120K 5%	1/6W 1/6W 1W 1/6W	F	R906 R907 R908 R909	1-247-704-11 1-247-700-11 1-247-704-11 1-247-700-11 1-247-704-11	CARBON CARBON CARBON CARBON	220 5 100 5 220 5 100 5	32 1, 52 1, 52 1,	'4W '4W '4W	D960 D961 D962 D963	9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01	LED TLY263P LED TLY263P LED TLY263P			
C230 1-106-6 C231 1-123-6 C232 1-108-6	908-11 ELECT 222-00 MYLAR 336-00 ELECT 633-81 MYLAR 908-11 ELECT	22MF 0.12MF 470MF 0.039MF 22MF	20% 10% 20% 10% 20%	25V 100V 25V 100V 25V	R224 R226 R227 R228 R229	1-249-412-11 1-247-881-00 1-249-412-11 1-249-429-11 1-249-385-11	CARBON CARBON CARBON CARBON	390 5% 120K 5% 390 5% 10K 5% 2.2 5%	1/6W 1/6W 1/6W 1/6W	F	R911 R912 R913 R914	1-247-700-11 1-247-704-11 1-247-700-11 1-247-704-11 1-247-700-11	CARBON CARBON CARBON CARBON	100 5 220 5 100 5 220 5	5% 1, 5% 1, 5% 1,	'4W '4W '4W '4W	D965 D968	9-990-901-01 <u>RE</u>	LED TLY263P LED TLS263P			
C235 1-123- C244 1-123- C245 1-124-	222-00 MYLAR 336-00 ELECT 332-00 ELECT 477-11 ELECT 332-00 ELECT	0.12MF 470MF 47MF 47MF 47MF	10% 20% 20% 20% 20%	100v 25v 16v 25v 16v	R230 R231 R236 R243 R244	1-249-429-11 1-249-385-11 1-249-423-11 1-249-417-11 1-249-417-11	CARBON CARBON CARBON CARBON	10K 5% 2.2 5% 3.3K 5% 1K 5% 1K 5%	1/6W 1/6W 1/6W 1/6W	F		1-247-704-11 1-247-704-11 1-247-704-11 1-247-704-11	CARBON CARBON CARBON CARBON	100 5 220 5 220 5 220 5 220 5	% 1/ % 1/ % 1/	/4W /4W /4W /4W	R940 R941 R942 R943 R944	1-247-703-11 1-247-700-11 1-247-704-11 1-247-700-11 1-247-704-11	CARBON CARBON CARBON CARBON	180 100 220 100 220	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
D202 8-719-1 D203 8-719-1	DIODE 101-61 DIODE RD6 101-86 DIODE RD1 911-19 DIODE 1SS	3E-L2 119			R245 R246 R246	*****	CARBON			*****	\$905 \$906 \$907 \$908 \$909	1-553-766-00 1-553-766-00 1-553-766-00 1-553-766-00	TCH MT SWITCH (KI MT SWITCH (KI MT SWITCH (KI MT SWITCH (KI MT SWITCH (KI MT SWITCH (KI	EY BOARD EY BOARD EY BOARD	SWITCH) SWITCH) SWITCH)		R945 R946 R947 R948 R949	1-247-700-11 1-247-700-11 1-247-700-11 1-247-700-11 1-247-700-11	CARBON CARBON CARBON CARBON	100 100 100 100 100	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
D206 8-719-9 D207 8-719-9 D210 8-719-9	911-19 DIODE 1SS 911-19 DIODE 1SS 911-19 DIODE 1SS 911-19 DIODE 1SS 911-19 DIODE 1SS	119 119 119			 D905	*9-992-308-01 <u>DI</u> 8-719-911-19	******* ODE		I A)		\$910 \$911 \$912 \$913	1-553-766-00 1-553-766-00 1-553-766-00 1-553-766-00	MT SWITCH (KI MT SWITCH (KI MT SWITCH (KI MT SWITCH (KI	EY BOARD EY BOARD EY BOARD EY BOARD	SWITCH) SWITCH) SWITCH) SWITCH)		R950 R951		CARBON	100	5% 5%	1/4W 1/4W
IC201 8-759-	110-37 DIODE RD1 <u>IC</u> 276-30 IC TA7630 205-84 IC TA7273	p			D906 D907 D908 D909 	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SSI DIODE 1SSI DIODE 1SSI	19 19 19				1-553-766-00 1-553-766-00		EY BOARD	SW ITCH)		\$940 \$941 \$942 \$943	1-553-766-00 1-553-766-00 1-553-766-00	MT SWITCH (K MT SWITCH (K MT SWITCH (K MT SWITCH (K	EY BOAF	RD SWIT	CH)
K1 *1-566- K2 *1-566-	CONNECTOR 054-11 PIN, CONN 056-11 PIN, CONN	ECTOR 2P ECTOR 4P			D911 D912 D913 D914	9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01	LED TLY263 LED TLY263 LED TLY263 LED TLY263	P P P				*9-992-401-01	******* DE	Y BOARD U	INIT B)		S946 S947 S948	1-553-766-00 1-553-766-00 1-553-766-00	MT SWITCH (K MT SWITCH (K MT SWITCH (K MT SWITCH (K MT SWITCH (K	EY BOAF EY BOAF EY BOAF	RD SWIT RD SWIT RD SWIT	CH) CH) CH)
K4 *1-508-	057-11 PIN, CONN 765-00 3P PLUG (123-00 PLUG, CON	M)) 3P		D915 D916 D917 D918 D919	9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01 9-990-893-01	LED TLY263 LED TLY263 LED TLY263	P P P				8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119									



Ref.No. Part No.	Description	Remark
*9-990-898-01	N BOARD (KEY BOARD UNIT B)	
<u>1C</u>		
IC935 8-741-138-70	IC BX1387 (DETECTOR)	
*******	*********	*****
	CELLANEOUS *******	
A. 1-426-315-11 T604 A. 1-439-372-32	RESISTOR ASSY, HIGH-VOLTAGE COIL, DEMAGNETIZATION TRANSFORMER ASSY, FLYBACK DEFLECTION YOKE (SY-153E) MAGNET, DISK; 10MM ø	
1-452-094-00 1-452-277-00 1-464-803-11 1-464-804-11 1 -534-820-13	MAGNET, ROTATABLE DISK; 15MM Ø MAGNET, BMC KEY BOARD UNIT (A) KEY BOARD UNIT (B) POWER CORD (AEP, AUS ONLY) CORD, POWER (MG ONLY)	
\$901 <u>A</u> .1-554-965-12 V901 <u>A</u> .8-736-955-05	SWITCH, PUSH (AC POWER)(1 KEY) PICTURE TUBE (A51JKQ10X)	
******	********	*****
	IES AND PACKING MATERIALS	
Part No.	Description	Remark
A-1470-789-A *4-377-015-01 *4-382-067-01 *4-382-068-01	COMMANDER ASSY (RM-668) BAG, PROTECTION CUSHION (UPPER) (ASSY) CUSHION (LOWER) (ASSY)	
*4-383-143-01 4-482-400-11	INDIVIDUAL CARTON MANUAL, INSTRUCTION	

SONY

Video/RGB Monitor Service Bulletin

Sony Service Company - Technical Services A Division of Sony Corporation of America Sony Drive, Park Ridge, New Jersey 07656

Model: PVM-2030/PVM-2530

No.7

Subject: Last Condition Memory Mis-Operation

Date: March 12, 1993

Symptom: (B22)

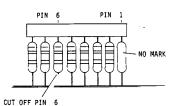
Unit fails to return to the last memory settings.

If the unit is RESET (to return to default settings) using the front Panel Controls then, powered OFF and ON again, the unit may not power up with the default settings.

Solution:

If this is the case, remove or cut off the pull-up resistor (10K Ohm) part of CP-101 which is connected to pin 15 (Busy Terminal) of IC-102 (CXK-1005P) on the B1-Board. This resistor is the 6th one on CP-101 (See Diagram).

CP101



SONY

Video/RGB Monitor Service Bulletin

Sony Service Company - Technical Services A Division of Sony Corporation of America Sony Drive, Park Ridge, New Jersey 07656

Model: PVM-2030

No. 5

Subject: Complete GA & GB Board Part Number

Date: March 12, 1993

Symptom: (**)

What is the part number for the Complete GA and GB Boards

Solution:

The GA and GB complete boards are now available as a G Board under the part number listed below:

DESCRIPTION	PART NUMBER
G BOARD COMPLETE (GA+GB COMPLETE+SHIELD CASE)	A-1477-425-A

SONY

Video/RGB Monitor Service Bulletin

Sony Service Company - Technical Services A Division of Sony Corporation of America Sony Drive, Park Ridge, New Jersey 07656

Model: SEE BELOW

No. 3

Subject: Cables and Adapters Chart For Monitors

Date: March 12, 1993

GDM2038/GDM2036/GDM1936/CPD1704S/CPD1730/CPD1604S/CPD1430/ CPD1304S/CPD1304/CPD1302/CPD1320S/CPD1320/PVM3230/PVM2530/ PVM2030/GVM2000/GVM2020/GVM1300/GVM1311Q

Symptom: (**)

What cable and/or adapter is needed for operating this monitor with my computer?

Solution:

Please refer to the Attached Chart on this document, to locate the cable and/or adapter required to connect a Sony Monitor to the corresponding Video type.

Note1:

Symbol	Meaning
-	Not Compatible or Recommended
*	Use the Supplied or Attached Cable
@	At
ADAPTER Number	Use the Supplied or Attached Cable with the Adapter specified. Example: "Connecting the GDM1936 to the MAC Quadra (640X480, 66 Hz) requires the Supplied cable and the TMACSTD adapter."

Note 2: Any Non-Standard or Non listed IBM Video Modes will use the same cable as the VGA standard. However, compatibility with the non-standard or Non listed Video modes should be established. In Most Cases, compatibility is established by verifying that the Horizontal and Vertical operating frequencies of the Non-Standard or Non listed Video Modes fall in the operating range of the Monitor in question.

Note 3: Any Non-Standard or Non listed MAC Video Types will probably use the adapters as follows:

MAC Video Type or Resolution	Adapter Needed
640 X 400 @ 66 Hz	TMACSTD
640 X 480 @ 60 Hz	TMACLC6VGA
640 X 480 @ 66 Hz	TMACSTD
800 X 600 @ 56 Hz	TMACLC6VGA
832 X 624 @ 75 Hz	TQUA16
1152 X 870 @ 75 Hz	TMAC115VGA

Note 4: TMAC and TQUA adapters are not available through KCP. Customer should get these adapters through thair dealer.

(Continued)

Reference: Tech Flash 34R2



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					Monitors				
Computer	Video	GDM-2038 GDM-2036	CPD-1730 CPD-1704S	CPD-1304 (SMF-523)	CPD-1302	CPD-1320 & CPD- 1320S	PVM-2030 PVM-2530	PVM-3230	GVM-1300 GVM-1311Q
	<u> </u>	GDM-1936 (1-590-226-11)	CPD-1604S CPD-1430	Cable Supplied		Cable Attached		-	GVM-2020
		Supplied	CPD-1304S Cable					1	
			Allakilled		CTO-512 Cable		SMF-500 Cable	CTG-512 Cable	CTG-512 Cable
	VS				CTO-\$12 Cable				CTG-512 Cable
IBM	EGA				SMP-523 Cable			-	SMF-523 Cable
	V.V.				See Note 2	7			
BM Other					men con Cast. A				SMF-523 Cable &
MAC	640 X480 @ 66Hz	THACSTD	TMACSTD	TMACSTD	TATACISTO	,			TMACSTD
One date 700	640 X 480 @ 60Hz		TMACLCSVGA TMACLCSVGA TMACLCSVGA		g F	TMACLEGYGA			SMF-523 Cable & TMACLC6VGA
956 906 Va	100 X 600 @ 56Hz		THACLCGVGA THACLCGVGA THACLCGVGA	TMACLCGVGA					SMF-523 Cable & TMACLCGVGA
	- 150 × 500	TOUALE	TOUAL	TQUA16					
Centris 610,	205/ @ 970 X 758	6		,			,		
920	AND A 400 & 66Hz		THACSTD	THEACSTE	Shift-523 Cable &				SMF-523 Cable & TMACSTD
MAC Tel IId					TMACSID				and ent Call &
MAC LC. LC II.	640 X 480 @ 60Hz	TMACLCGVGA	TMACLCGVGA TMACLCGVGA	TMACLCGVGA	SAGE-523 CAND & THANCLCGVGA	TMACLOSVGA			TMACLCGVGA
Ilvi, Ilvx Performa	640 X 480 @ 66Hz	TMACSTD	THACSTD	THACSTD	SMF-523 Cable & TMACSTD				SMP-523 Ceble & TMACSTD
100, 600			TARACT CONCA TRACTICONGA TRACTICONGA	THEACTCONGA	_12	TMACLCGVGA			Shiff-523 Cable &
MAC	OND X 480 GB COURTS				TMACTORVEA				SIMP-523 Cable &
123	640 X 440 @ 66Hz	TMACSTD	THACSTD	THALSID	TAKACSTD				TMACSTD
	640 X 400 8 00112 112 X 624 6 75Hs	TQUASE	TQUAIG	TQUA16		╝			4 445 500 000
١	540 X 480 49 60Hz	TMACLCSVGA	THACLCOVGA THACLCOVGA	THACLCOVGA		THACLCSVGA	,		TMACLCGVGA
PowerBook	zH99 @ 081 X 019	TMACSTD	TMACSTD	THACSTD	SMR-523 Cable & TMACSTD				SMF-523 Cable & TMACSTD
160, 165c, Duo Dock.	zH95 @ 009 X 008		THACLCSVGA THACLCSVGA THACLCSVGA BIR523 Cabb & THACLCSVGA	THACLCOVGA	SMP-523 Cable &				TMACLCOVGA
Duo Mini	\$32 X 624 @ 75Hz	TQUAIG	TQUA16	TQUA16		-		·	
Dock,					See Note 3	.3			
MAC Other									